

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 June 2001 (14.06.2001)

PCT

(10) International Publication Number  
WO 01/42467 A2

(51) International Patent Classification<sup>7</sup>: C12N 15/12,  
C07K 14/47, 16/30, G01N 33/68, C12Q 1/68, A61K  
31/7088 // A61P 35/00

MA 02138 (US). ZHAO, Xumei; 6 Wildwood Lane,  
Burlington, MA 01803 (US).

(21) International Application Number: PCT/US00/33312

(74) Agents: SMITH, DeAnn, F. et al.; Lahive & Cockfield,  
LLP, 28 State Street, Boston, MA 02109 (US).

(22) International Filing Date: 8 December 2000 (08.12.2000)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/169,681	8 December 1999 (08.12.1999)	US
60/171,350	21 December 1999 (21.12.1999)	US
60/189,315	14 March 2000 (14.03.2000)	US
60/203,791	12 May 2000 (12.05.2000)	US
60/210,600	9 June 2000 (09.06.2000)	US
60/220,114	21 July 2000 (21.07.2000)	US

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant: MILLENNIUM PREDICTIVE  
MEDICINE, INC. [US/US]; One Kendall Square  
Bldg. 700, Cambridge, MA 02139 (US).

Published:

— Without international search report and to be republished  
upon receipt of that report.

(72) Inventors: SCHLEGEL, Robert; 211 Melrose Street,  
Auburndale, MA 02466 (US). DEEDS, James; 39 Charn-  
wood Road, #1, Somerville, MA 02144 (US). BERGER,  
Allison; 1105 Massachusetts Avenue, #8A, Cambridge,

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVEN-  
TION, AND THERAPY OF CERVICAL CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human  
cervical cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers  
is correlated with the presence of cervical cancer.



WO 01/42467 A2



NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
IDENTIFICATION, ASSESSMENT, PREVENTION,  
AND THERAPY OF CERVICAL CANCER

5 RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/169,681, filed on December 8, 1999, U.S. provisional application serial no. 60/171,350, filed on December 21, 1999, U.S. provisional application serial no. 60/189,315, filed on March 14, 2000, U.S. provisional application serial no. 60/203,791,  
10 filed on May 12, 2000, and U.S. provisional application serial no. 60/210,600, filed on June 9, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

The field of the invention is cervical cancer, including diagnosis,  
15 characterization, management, and therapy of cervical cancer.

BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed, around the world, is a major concern. Currently there are only a handful of treatments  
20 available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

Cancer of the cervix is one of the most common malignancies in women and remains a significant public health problem throughout the world. In the United States  
25 alone, invasive cervical cancer accounts for approximately 19% of all gynecological cancers. In 1996, it is estimated that there will be 14,700 newly diagnosed cases and 4900 deaths attributed to this disease (American Cancer Society, Cancer Facts & Figures 1996, Atlanta, Ga.: American Cancer Society, 1996). In many developing countries, where mass screening programs are not widely available, the clinical problem is more  
30 serious. Worldwide, the number of new cases is estimated to be 471,000 with a four-year survival rate of only 40% (Munoz et al., 1989, *Epidemiology of Cervical Cancer* In: "Human Papillomavirus", New York, Oxford Press, pp 9-39; National Institutes of

Health, Consensus Development Conference Statement on Cervical Cancer, Apr.1-3, 1996).

The precursor to cervical cancer is dysplasia, also known in the art as cervical intraepithelial neoplasia (CIN) or squamous intraepithelial lesions (SIL). While it is not understood how normal cells become transformed, the concept of a continuous spectrum of histopathological change from normal, stratified epithelium through CIN to invasive cancer has been widely accepted for many years. A large body of epidemiological and molecular biological evidence has established human papillomavirus (HPV) infection as a causative factor in cervical cancer. HPV is found in 85% or more of squamous cell invasive lesions, which represent the most common histologic type seen in cervical carcinoma. Additional cofactors have also been identified, including oncogenes that have been activated by point mutations and chromosomal translocations or deletions.

In light of this, cervical cancer remains a highly preventable form of cancer when pre-invasive lesions are detected early. Cytological examination of Papanicolaou-stained cervical smears (also referred to as Pap smears) is currently the principle method for detecting cervical cancer. Not surprisingly, the effectiveness of Pap smear screening varies depending not only upon the quality of the sample being used, but also upon subjective parameters that are inherent to the analysis. In addition, despite the historical success of the test, concerns have arisen regarding its ability to reliably predict the behavior of some pre-invasive lesions (Ostor *et al.*, 1993, *Int. J. Gynecol. Pathol.* 12: 186-192; and Genest *et al.*, 1993, *Human Pathol.* 24: 730-736).

It would be therefore be desirable to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with cervical cancer, or to indicate a predisposition to such for preventative measures.

## SUMMARY OF THE INVENTION

The invention relates to novel genes associated with cervical cancer as well as methods of assessing whether a patient is afflicted with cervical cancer. "Cervical cancer" as used herein includes pre-malignant conditions, *e.g.*, CIN and SIL. The methods of the present invention comprise the step of comparing the level of expression of a novel marker in a patient sample, wherein the marker is listed within Tables 1-4, and the normal level of expression of the marker in a control, *e.g.*, a sample from a

patient without cervical cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition (*e.g.*, CIN and/or SIL).

In one method, the marker(s) are preferably selected such that the positive  
5 predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is differentially-expressed by at least two-fold in at least about 20% of any of the following conditions: stage 0 cervical cancer patients, stage I cervical cancer patients, stage II cervical cancer patients, stage III cervical cancer patients, stage IV cervical cancer patients, grade I cervical cancer patients, grade II  
10 cervical cancer patients, grade III cervical cancer patients, squamous cell (epidermoid) cervical cancer patients, cervical adenocarcinoma patients, cervical adenosquamous carcinoma patients, small-cell cervical carcinoma patients, malignant cervical cancer patients, patients with primary carcinomas of the cervix, patients with primary malignant lymphomas of the cervix and patients with secondary malignant lymphomas of the  
15 cervix, and all other types of cancers, malignancies and transformations associated with the cervix.

In one embodiment of the methods of the present invention, the sample comprises cells obtained from the patient. The cells may be found in a cervical smear collected, for example, by a cervical brush. In another embodiment, the patient sample  
20 is a cervical-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, urine, and fluids collected by peritoneal rinsing.

In accordance with the methods of the present invention, the presence and/or level of expression of the marker in a sample can be assessed, for example, by detecting  
25 the presence in the sample of :

- a protein corresponding to the marker or a fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)  
30
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed within Tables 1-4 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for identifying patients with a pre-malignant condition such as CIN and/or SIL. The methods are also useful for further diagnosing patients having an identified cervical mass or symptoms associated with cervical cancer. The methods of the present invention can further be of particular use with patients having an enhanced risk of developing cervical cancer (*e.g.*, patients having a familial history of cervical cancer and patients identified as having a mutant oncogene). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a cervical cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with cervical cancer. A significantly enhanced level of expression in the sample of one or more of the markers listed in Tables 1-4, or some combination thereof, relative to that marker's corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. The markers of Tables 1-4 may also be used in combination with known cervical cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with cervical cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-4, and
  - b) the normal level of expression of the marker in a control non-cervical cancer sample.
- 5 A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer.

- The invention further relates to a method of assessing the efficacy of a therapy
- 10 for inhibiting cervical cancer in a patient. This method comprises comparing:
- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed within Tables 1-4, and
  - 15 b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting cervical cancer in the patient.

- 20 It will be appreciated that in this method the "therapy" may be any therapy for treating cervical cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a cervical tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

- 25 The present invention therefore further comprises a method for monitoring the progression of cervical cancer in a patient, the method comprising:
- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
  - 30 b) repeating step a) at a subsequent time point in time; and
  - c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of cervical cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with cervical cancer. This kit comprises reagents for assessing expression of a marker listed within Tables 1-4.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting a cervical cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed within Tables 1-4, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of cervical cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed within Tables 1-4.

The invention also includes a kit for assessing the presence of cervical cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed within Tables 1-4.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. The method comprises isolating a protein or protein fragment corresponding to a marker listed within Tables 1-4, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the cervical carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and
- b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed within Tables 1-4. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses cervical carcinogenic potential.

Additionally, the invention includes a kit for assessing the cervical carcinogenic potential of a test compound. The kit comprises cervical cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed within Tables 1-4.

The invention further relates to a method of treating a patient afflicted with cervical cancer. This method comprises providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed within Tables 1-4.

- 5           The invention includes a method of inhibiting cervical cancer in a patient at risk for developing cervical cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed within Tables 1-4.

          It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known cervical cancer markers. It will further  
10 be appreciated that the methods and kits may be used to identify cancers other than cervical cancer.

#### DETAILED DESCRIPTION OF THE INVENTION

          The invention relates to newly discovered genes associated with the cancerous  
15 state of cervical cells. It has been discovered that the level of expression of these individual genes, also referred to as markers, and combinations of these genes correlates with the presence of cervical cancer or a pre-malignant condition in a patient. Methods are provided for detecting the presence of cervical cancer in a sample, the absence of cervical cancer in a sample, the stage of cervical cancer, and with other characteristics of  
20 cervical cancer that are relevant to prevention, diagnosis, characterization and therapy of cervical cancer in a patient. As used herein, "cervical cancer" includes pre-malignant conditions including CIN and SIL.

#### Definitions

- 25           As used herein, each of the following terms has the meaning associated with it in this section.

          The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

- 30           A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed within Tables 1-4. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns



occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences).

- 5 As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: The second polynucleotide comprises the first polynucleotide and the second polynucleotide  
10 encodes a gene product; 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be a fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a  
15 protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The  
20 second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene; 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention.

- 25 Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

- 30 A "cervical-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through cervical cells or into which cells or proteins shed from cervical cells are capable of passing. Exemplary cervical-associated body fluids

include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in cervical cells of a patient, *e.g.* a human, not afflicted with cervical cancer.

5 "Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the  
10 promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

15 A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked  
20 with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene  
25 product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding  
30 to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

- 5 As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher than the normal level of expression of a marker if the level of expression of the marker is greater than the  
10 normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five  
15 times, higher or lower, respectively, than the normal level of expression of the marker.

Cervical cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, cervical cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one  
20 reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

#### Description

25 The present invention is based, in part, on identification of novel markers which are expressed at a higher level in cervical cancer cells than they are in normal (*i.e.* non-cancerous) cervical cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous cervical cells. The presence, absence, or level of expression of one or more of these  
30 markers in cervical cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state

of cervical cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

- 5           1)       assessing whether a patient is afflicted with cervical cancer, including assessing whether the patient has a pre-malignant condition, *e.g.*, CIN and/or SIL;
- 2)       assessing the stage of cervical cancer in a human patient;
- 3)       assessing the grade of cervical cancer in a patient;
- 4)       assessing the benign or malignant nature of cervical cancer in a patient;
- 10          5)       assessing the histological type of neoplasm (*e.g.* squamous cell, small cell, etc.) associated with cervical cancer in a patient;
- 6)       making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer;
- 7)       assessing the presence of cervical cancer cells;
- 15          8)       assessing the efficacy of one or more test compounds for inhibiting cervical cancer in a patient;
- 9)       assessing the efficacy of a therapy for inhibiting cervical cancer in a patient;
- 10)       monitoring the progression of cervical cancer in a patient;
- 20          11)       selecting a composition or therapy for inhibiting cervical cancer in a patient;
- 12)       treating a patient afflicted with cervical cancer;
- 13)       inhibiting cervical cancer in a patient;
- 14)       assessing the cervical carcinogenic potential of a test compound;
- 25               and
- 15)       inhibiting cervical cancer in a patient at risk for developing cervical cancer.

The invention thus includes a method of assessing whether a patient is afflicted  
30 with cervical cancer which includes assessing whether the patient has a pre-malignant condition. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-

cervical cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer. The marker is selected from the group consisting of the markers listed within Tables 1-4.

5           The polynucleotides set forth in Tables 1-4 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-4. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or  
10 full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

          The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, such as  
15 an allelic variant. These altered, but phenotypically equivalent polynucleotides are referred to as "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This invention further encompasses polynucleotides, which hybridize to the polynucleotides  
20 of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 95% identical as determined by a sequence alignment program when run under default parameters.

          Any marker or combination of markers listed within Tables 1-4, as well as any  
25 known markers in combination with the markers set forth within Tables 1-4, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in cervical cancer cells and the level of expression of the same marker in normal cervical cells is as great as possible. Although this difference can be as small as the  
30 limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method,

and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It will be appreciated that patient samples containing cervical cells may be used in the methods of the present invention. In these embodiments, the level of expression  
5 of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a cervical cell sample, *e.g.*, cervical smear, obtained from a patient. The cell sample can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the  
10 marker in the sample. Likewise cervical smears may also be subjected to post-collection preparative and storage techniques, *e.g.*, fixation.

It will also be appreciated that certain markers correspond to proteins or fragments thereof, which are secreted from cervical cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are  
15 preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein or fragment thereof, corresponding to each of these markers can be detected in a cervical-associated body fluid sample. In addition, preferred *in vivo* techniques for detection of a protein or fragment thereof, corresponding to a marker of the invention include introducing into a subject a labeled antibody  
20 directed against the protein or fragment of the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any  
25 particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a cervical cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About  $8 \times 10^5$  293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO<sub>2</sub>, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424-54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-<sup>35</sup>S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO<sub>2</sub> atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of cervical-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* cervix, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient).

Many cervical-associated body fluids can have cervical cells therein, particularly when the cervical cells are cancerous, and, more particularly, when the cervical cancer is metastasizing. Cell-containing fluids which can contain cervical cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and cervical exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins or fragments thereof, having at least one portion which is displayed on the surface of cells which



express it. Although the proteins having at least one cell-surface portion are not set forth herein, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well known computer-based sequence analysis methods (e.g. the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (i.e. including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein or fragment thereof, having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (e.g. using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods. *In situ* hybridization (ISH) and immunohistochemistry (IHC) methods are preferred.

In another preferred embodiment, expression of a marker is assessed using an antibody (e.g. a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (e.g. an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {e.g. biotin-streptavidin}), or an antibody fragment (e.g. a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or fragment thereof, corresponding to the marker; such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In yet another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (i.e. a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction

methods prior to hybridization with the reference polynucleotide. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum detection limit of the method used to assess expression in at least one of normal cervical cells and cancerous cervical cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- (or under-)expressed in cancers of various types, including specific cervical cancers, as well as other cancers such as ovarian cancer, breast cancer, etc. For example, it will be confirmed that some of the markers of the invention are over-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of cervical cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with cervical cancer of various stages (*i.e.* stage 0, I, II, III, and IV cervical cancers, as well as subclassifications IA1, IA2, IB, IB1, IB2, IIA, IIB, IIIA, IIIB, IVA, and IVB, using the FIGO Stage Grouping system for primary carcinoma of the cervix (see Gynecologic Oncology, 1991, 41:199 and Cancer, 1992, 69:482)), of various

histologic subtypes (e.g. squamous cell carcinomas and squamous cell carcinoma variants such as verrucous carcinoma, lymphoepithelioma-like carcinoma, papillary squamous neoplasm and spindle cell squamous cell carcinoma (see *Cervical Cancer and Preinvasive Neoplasia*, 1996, pp. 90-91), serous, mucinous, endometrioid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal {Müllerian} mixed tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant cervical tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (i.e. grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} ). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in patients.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with a cervical cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a positive predictive value (PPV) of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-cervical origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.*, normally not expressed in non-cervical tissue.

Only a small number of markers are known to be associated with cervical cancers (*e.g.* bcl-2, 15A8 antigen, cdc6, Mcm5, and EGFR). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 $\alpha$* , *bcl2 $\beta$* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbB-1*, *elk1*, *elk3*, *epb*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *flil/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbB- 2/neu*, *her3/erbB-3*, *her4/erbB-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*, *msh2*, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nfl*, *nf2*, *nme2*, *nras*, *p53*,

*pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rbl, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thral, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

5 Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor  
10 (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-  
15 derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth  
20 factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

25 Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin),  
30 matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1, cysteine-rich metalloproteinase (disintegrin) and its precursors, subtilisin-like protease Pc8

and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

- 5 Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3,
- 10 extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type
- 15 II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase
- 20 Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src
- 25 homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-
- 30 fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing cervical cancer and their medical advisors. Patients recognized as having an enhanced risk of developing cervical cancer include, for example, patients having a familial history of cervical cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients determined through any other established medical criteria to be at risk for cancer or other malignancy.

The level of expression of a marker in normal (*i.e.* non-cancerous) human cervical tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of cervical cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the cervical cells which is suspected of being cancerous. For example, the normal level of expression of a marker may be assessed using a non-affected portion of the cervix and this normal level of expression may be compared with the level of expression of the same marker in an affected portion of the cervix. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of cervical cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of cervical cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a parafinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of cervical cancer cells (e.g. in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (e.g. a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (e.g. SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal cervical cells, a sample of cervical cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. In this method, a protein corresponding to a marker of the invention is isolated (e.g. by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened



using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test

5 compound for inhibiting cervical cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of cervical cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of cervical cells, it is likewise recognized that changes in the levels of expression of other of the  
10 markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit cervical cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous cervical cells).

15 This method thus comprises comparing expression of a marker in a first cervical cell sample and maintained in the presence of the test compound and expression of the marker in a second cervical cell sample and maintained in the absence of the test compound. A significant decrease in the level of expression of a marker listed within Tables 1-4 is an indication that the test compound inhibits cervical cancer. The cervical  
20 cell samples may, for example, be aliquots of a single sample of normal cervical cells obtained from a patient, pooled samples of normal cervical cells obtained from a patient, cells of a normal cervical cell line, aliquots of a single sample of cervical cancer cells obtained from a patient, pooled samples of cervical cancer cells obtained from a patient, cells of a cervical cancer cell line, or the like. In one embodiment, the samples are  
25 cervical cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various cervical cancers are tested in order to identify the compound which is likely to best inhibit the cervical cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting cervical cancer in a patient. In this method, the level of expression of one or  
30 more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant decrease in the level of

expression of a marker listed within Tables 1-4; or blocks induction of a marker listed within Tables 1-4, then the therapy is efficacious for inhibiting cervical cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be efficacious for inhibiting cervical cancer in the patient.

As described herein, cervical cancer in patients is associated with an increase in the level of expression of one or more markers listed within Tables 1-4. While, as discussed above, some of these changes in expression level result from occurrence of the cervical cancer, others of these changes induce, maintain, and promote the cancerous state of cervical cancer cells. Thus, cervical cancer characterized by an increase in the level of expression of one or more markers listed within Tables 1-4 can be controlled or suppressed by inhibiting expression of those markers.

Expression of a marker listed within Tables 1-4 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided to the cervical cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the cervical cancer cells of the patient.

As described above, the cancerous state of human cervical cells is correlated with changes in the levels of expression of the markers of the invention. Thus, compounds which induce increased expression of one or more of the markers listed within Tables 1-4 can induce cervical cell carcinogenesis. The invention thus includes a method for assessing the human cervical cell carcinogenic potential of a test compound. This method comprises maintaining separate aliquots of human cervical cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant increase in the level of expression of a

marker listed within Tables 1-4 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human cervical cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

10

#### I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

25

An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA

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of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

5       A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-4, can be isolated using standard molecular biology techniques and the sequence information described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in  
10   Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may be employed. One such  
15   method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5' end. The tagged cDNA is then  
20   amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the  
25   manufacturer's instructions.

Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of the markers of the present invention. Other high throughput screens for cDNAs, such as  
30   those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled human ESTs into a database called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone.

- 5 Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X ., 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used  
10 accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in  
15 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with <sup>32</sup>P-ATP through use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant  
20 PCR product contains the SAGE tag of interest as well as additional cDNA, the length of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first  
25 converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-B-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)-3', contains a poly-T stretch at the 3' end for hybridization and  
30 priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to strepavidin-coated magnetic beads, and an *Ascl* restriction endonuclease site for releasing the cDNA from the strepavidin-coated magnetic beads.

Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

cDNA constructed utilizing this or similar modified oligo-dT primer is then processed as described in U.S. Patent No. 5,695,937 up until adapter ligation where only one adapter is ligated to the cDNA pool. After adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's instructions for this technology are commercially available from Life Technologies, Inc., Gaithersburg, Maryland. Briefly, a complex population of single-stranded phagemid DNA containing directional cDNA inserts is enriched for the target sequence by hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated-target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the <sup>32</sup>P-labeled oligonucleotide, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, 5 oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence 10 complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given 15 nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The 20 probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

25 Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis- 30 express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

- 5 In addition to the nucleotide sequences described in the Tables, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which  
10 occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

- 15 As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 0.1-0.5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be  
20 readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

- In another embodiment, an isolated nucleic acid molecule of the invention is at  
25 least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes  
30 under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent



conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for  
5 annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*, Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, *Nature Biotechnology*, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of  
15 the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-  
20 essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino  
25 acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that  
30 are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that

is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-

coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the

molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-

(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine.

Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the

invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into a cervix-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an  $\alpha$ -anomeric nucleic acid molecule. An  $\alpha$ -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual  $\alpha$ -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-*o*-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS

RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as

probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity.

PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide,

hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

## 15 II. Isolated Proteins and Antibodies

One aspect of the invention pertains to novel isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material

includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker (*e.g.*, the amino acid sequence listed in the GenBank and IMAGE Consortium database records described herein), which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences in Tables 1-4. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then



compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, %

- 5 identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) x100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of

10 Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences

15 homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be

20 used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of

25 Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity

30 and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for

comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a  $k$ -tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent  
5 identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous  
10 polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

15 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal  
20 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY,  
25 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the *phoA* secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

30 In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family.

The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not

secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods.

- 5 Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants  
10 can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which  
15 includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

- 20 Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene  
25 library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the  
30 polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983,

*Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues

of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds.

Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')<sub>2</sub> fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred

polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a  
5 monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a  
10 monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia  
*Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene  
15 *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO  
92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288;  
20 PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized  
25 monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*,  
30 U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining



regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.*, Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having cervical cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent

5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase,  $\beta$ -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{35}\text{S}$  or  $^3\text{H}$ .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy

anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (e.g., methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil  
5 decarbazine), alkylating agents (e.g., mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (e.g., daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (e.g., dactinomycin (formerly actinomycin), bleomycin,  
10 mithramycin, and anthramycin (AMC)), and anti-mitotic agents (e.g., vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide  
15 possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"),  
20 interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, e.g., Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in Monoclonal Antibodies And Cancer Therapy, Reisfeld et al.  
25 (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in Controlled Drug Delivery (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in Monoclonal Antibodies '84: Biological And Clinical Applications, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future  
30 Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in Monoclonal Antibodies For Cancer Detection And Therapy, Baldwin et al. (eds.), pp.

303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

5        Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a  
10   fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is  
15   encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or  
20   humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present  
25   invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence  
30   which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing

in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art. The method can further comprise producing a monoclonal antibody-producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

### III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector"

refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the

host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

- 5           The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (e.g., *E. coli*) or eukaryotic cells (e.g., insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed  
10 and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

- Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein  
15 encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion  
20 moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and  
25 pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

- Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San  
30 Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter



mediated by a co-expressed viral RNA polymerase (T7 *gn1*). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 *gn1* gene under the transcriptional control of the *lacUV 5* promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-

specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (e.g., the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (e.g., milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the  $\alpha$ -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny

of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

5           A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

          Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized  
10 techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

          For stable transfection of mammalian cells, it is known that, depending upon the  
15 expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418,  
20 hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

          A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the  
25 invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced.  
30 In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S.

Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA  
5 encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which  
10 contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a  
15 "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by  
20 additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector  
25 (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a  
30 mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant

female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, e.g., Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, e.g., by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmot *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

#### IV. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and

agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

5           The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can  
10 further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

15           The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the  
20 interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the  
25 marker.

          The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries  
30 (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85);

spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other  
5 four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*  
10 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor,  
15 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

20 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for  
25 example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with  $^{125}\text{I}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ , or  $^3\text{H}$ , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively,  
30 assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.



In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an cervical cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that

interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated

marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and

densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, e.g., Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, e.g., Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, e.g., Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*,  
5 Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy.  
10 Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be  
15 assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will  
20 result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of  
25 mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA  
30 or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA

or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of

subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic



- water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as
- 5 bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants.
- 10 Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about
- 15 by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

- Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required,
- 20 followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a
- 25 powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

- Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and
- 30 used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a  
5 lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an  
10 aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art,  
15 and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

20 The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled  
25 release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova  
30 Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically

acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the cervical epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

## V. Computer Readable Means and Arrays

Computer readable media comprising a marker(s) of the present invention is also provided. As used herein, "computer readable media" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to:

- 5 magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. The skilled artisan will readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium  
10 having recorded thereon a marker of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the markers of the present invention.

- 15 A variety of data processor programs and formats can be used to store the marker information of the present invention on computer readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database  
20 application, such as DB2, Sybase, Oracle, or the like. Any number of dataprocessor structuring formats (e.g., text file or database) may be adapted in order to obtain computer readable medium having recorded thereon the markers of the present invention.

- By providing the markers of the invention in computer readable form, one can  
25 routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the invention in computer readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which  
30 match a particular target sequence or target motif.

The invention also includes an array comprising a marker(s) of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes  
5 can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be  
10 grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a  
15 determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired  
20 effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological  
25 contexts, as disclosed herein, for example development and differentiation, tumor progression, progression of other diseases, *in vitro* processes, such a cellular transformation and senescence, autonomic neural and neurological processes, such as, for example, pain and appetite, and cognitive functions, such as learning or memory.

The array is also useful for ascertaining the effect of the expression of a gene on  
30 the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

## 5 VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic  
10 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing cervical cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

15 Yet another aspect of the invention pertains to monitoring the influence of agents (e.g., drugs or other compounds administered either to inhibit cervical cancer or to treat or prevent any other disorder {i.e. in order to understand any cervical carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the  
20 following sections.

### A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves  
25 obtaining a biological sample (e.g. a cervical smear) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (e.g., mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro*  
30 techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs),

Western blots, immunoprecipitations, immunohistochemistry and immunofluorescence.

*In vitro* techniques for detection of genomic DNA include Southern hybridizations.

Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (e.g., by washing) under conditions such that any complexes formed will remain  
5 immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known  
10 to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A  
15 fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen  
20 that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay  
25 should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (e.g., using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA)  
30 (see, e.g., Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real



time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions  
5 between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential  
10 centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).  
15 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the  
20 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-  
25 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999).  
In this technique, protein or nucleic acid complexes are separated based on size or  
30 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the

absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from cervical cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the cervical cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-cervical cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

10        Preferably, the samples used in the baseline determination will be from cervical cancer or from non-cervical cancer cells of cervical tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is cervical specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from cervical cells provides a means for grading the severity of the cervical cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')<sub>2</sub>) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

30        Proteins from cervical cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A*

*Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis, immunohistochemistry (IHC) and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether cervical cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots, IHC or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody, proteins or cell containing proteins on a solid support. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from cervical cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (e.g. a cervical smear). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing cervical cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (e.g., an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

5 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a  
10 preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package,  
15 along with instructions for interpreting the results of the assays performed using the kit.

#### B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically  
20 or therapeutically) cervical cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the  
25 pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens.

Accordingly, the level of expression of a marker of the invention in an individual can be  
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, e.g., Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor  
5 altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the  
10 main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (e.g., N-acetyltransferase 2 (NAT  
15 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among  
20 different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic  
25 response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be  
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the

identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

5           This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-4. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a cervical cancer cell is compiled. The data processing system is useful to analyze gene expression between two cells by  
10 first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between  
15 the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a cervical cancer cell as defined above.

In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression, is stored in any functionally relevant program, *e.g.*, in Compare Report using  
20 the SAGE software (available through Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an Excel spreadsheet first and then from there into MS-ACCESS  
25 for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations, applied in various combinations to reduce a large input set of  
30 polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.



One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (e.g.,  $\text{GroupNormal} = \text{Normal1} + \text{Normal2}$ ,  $\text{GroupTumor1} + \text{TumorCellLine}$ ). Additional characteristic values are also calculated for each tag in the group (e.g., average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

### 10      C. Monitoring Clinical Trials

Monitoring the influence of agents (e.g., drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for cervical cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (e.g., an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, i.e., to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, i.e., to decrease the effectiveness of the agent.

#### D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, cervical cancer. As used herein, a "surrogate marker" is an objective  
5 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of  
10 particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV  
15 RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As  
20 used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a  
25 pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to  
30 the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VII. Experimental Protocol

### A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the  
5 isolation of clones expressed at higher levels in one population of mRNA (tester)  
compared to another population (driver). Both tester and driver mRNA populations are  
converted into cDNA by reverse transcription, and then PCR amplified using the  
SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using  
the PCR-Select cDNA subtraction kit from Clontech. This technique results in both  
10 subtraction and normalization, which is an equalization of copy number of low-  
abundance and high-abundance sequences. After generation of the subtractive libraries,  
a group of 96 or more clones from each library is tested to confirm differential  
expression by reverse Southern hybridization.

SEQ ID NOS: 1-705 were identified through the above-described subtractive  
15 library hybridization technique, wherein the "tester" source for the subtracted libraries  
was comprised of cDNA generated from four independent stage IB cervical tumors.  
The "driver" source for the subtracted libraries was comprised of cDNA generated from  
at least three independent samples of normal ectocervix that were manually dissected to  
isolate the epithelial component of the tissue. In some cases, the driver also included  
20 cDNA generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in  
activated and resting states.

SEQ ID NOS: 706-1428 were also identified through the above-described  
subtractive library hybridization technique, wherein the "tester" source for the  
subtracted libraries was comprised of cDNA generated from four independent CINIII  
25 cervical samples. The "driver" source for the subtracted library was comprised of  
cDNA generated from six independent normal ectocervix samples that were manually  
dissected to isolate the epithelial components. The "driver" source also includes cDNA  
generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in activated  
and resting states.

### B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

### VIII . Summary Of The Data Provided In The Tables

Table 1 shows 1428 novel nucleotide sequences identified through subtracted library experiments. These 1428 novel sequences were determined to be novel through various BLAST searches of available databases. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 2 and 3. Table 4 sets forth additional sequence (*e.g.*, full-length sequences) for the sequences of Tables 1-3.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

### Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

Claims

1. An isolated nucleic acid molecule selected from the group consisting of:
  - a) a nucleic acid molecule comprising a nucleotide sequence which  
5 is at least 90% homologous to a nucleotide sequence of Tables 1-4, or a  
complement thereof;
  - b) a nucleic acid molecule comprising a fragment of a nucleic acid  
comprising the nucleotide sequence of Tables 1-4, or a complement thereof; and
  - c) a nucleic acid molecule comprising the nucleotide sequence of  
10 Tables 1-4, or a complement thereof.
2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.  
15
4. An isolated polypeptide which is encoded by a nucleic acid molecule  
comprising a nucleotide sequence which is at least 90% homologous to a nucleic  
acid comprising a nucleotide sequence of Tables 1-4.
- 20 5. An antibody which selectively binds to a polypeptide of claim 4.
6. A method for producing a polypeptide comprising culturing the host cell  
of claim 3 under conditions in which the nucleic acid molecule is expressed.
- 25 7. A method for detecting the presence of a polypeptide of claim 4 in a  
sample comprising:
  - a) contacting the sample with a compound which selectively binds to the  
polypeptide; and
  - b) determining whether the compound binds to the polypeptide in the  
30 sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

5 9. A method for detecting the presence of a nucleic acid molecule of claim 1, in a sample comprising:

a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and

b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10 10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

15

11. The method of claim 9, wherein the sample is isolated from cervical tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

20

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with cervical cancer or has a pre-malignant condition, the method comprising comparing:

25 a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

b) the normal level of expression of the marker in a control non-cervical cancer sample,

30 wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition.

15. The method of claim 14, wherein the patient has CIN.
16. The method of claim 14, wherein the patient has SIL.
- 5 17. The method of claim 14, wherein the marker corresponds to a secreted protein.
18. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.
- 10 19. The method of claim 14, wherein the sample comprises cells obtained from the patient.
20. The method of claim 19, wherein the sample is a cervical smear.
- 15 21. The method of claim 19, wherein the cells are in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, a cystic fluid, and an cervical exudate.
- 20 22. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.
- 25 23. The method of claim 17, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.
24. The method of claim 23, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.
- 30



25. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

5

26. The method of claim 25, wherein the transcribed polynucleotide is an mRNA.

27. The method of claim 25, wherein the transcribed polynucleotide is a  
10 cDNA.

28. The method of claim 25, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

15 29. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

20

30. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 2.

25 31. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 5.

32. The method of claim 14, comprising comparing:  
a) the level of expression in the sample of each of a plurality of markers  
independently selected from the markers listed in Tables 1-4, and  
b) the normal level of expression of each of the plurality of markers in  
5 samples of the same type obtained from control humans not afflicted with cervical  
cancer,  
wherein the level of expression of more than one of the markers is  
significantly altered, relative to the corresponding normal levels of expression of the  
markers, is an indication that the patient is afflicted with cervical cancer or a pre-  
10 malignant condition.

33. The method of claim 32, wherein the level of expression of each of the  
markers is significantly altered, relative to the corresponding normal levels of  
expression of the markers, is an indication that the patient is afflicted with cervical  
15 cancer.

34. The method of claim 32, wherein the plurality comprises at least three of  
the markers.

20 35. The method of claim 32, wherein the plurality comprises at least five of  
the markers.

36. A method for monitoring the progression of cervical cancer or a pre-  
malignant condition in a patient, the method comprising:  
25 a) detecting in a patient sample at a first point in time, the expression of a  
marker, wherein the marker is selected from the group consisting of the markers listed in  
Tables 1-4;  
b) repeating step a) at a subsequent point in time; and  
c) comparing the level of expression detected in steps a) and b), and  
30 therefrom monitoring the progression of cervical cancer or a pre-malignant condition in  
the patient.

37. The method of claim 36, wherein the marker corresponds to a secreted protein.

38. The method of claim 36, wherein marker corresponds to a transcribed  
5 polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

39. The method of claim 36, wherein the sample comprises cells obtained from the patient.

10 40. The method of claim 39, wherein the patient sample is a cervical smear.

41. The method of claim 39, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove a tumor.

15 42. A method of assessing the efficacy of a test compound for inhibiting cervical cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

20 b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting cervical cancer in the patient.

25

43. The method of claim 42, wherein the first and second samples are portions of a single sample obtained from the patient.

44. The method of claim 42, wherein the first and second samples are  
30 portions of pooled samples obtained from the patient.

45. A method of assessing the efficacy of a therapy for inhibiting cervical cancer in a patient, the method comprising comparing:

- a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and
- b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy, wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting cervical cancer in the patient.

46. A method of selecting a composition for inhibiting cervical cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
- d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

47. A method of inhibiting cervical cancer in a patient, the method comprising:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
- d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

48. A kit for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.

5 49. A kit for assessing the presence of cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.

10 50. A kit for assessing the suitability of each of a plurality of compounds for inhibiting cervical cancer in a patient, the kit comprising:  
a) the plurality of compounds; and  
b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.

15

51. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the method comprising:

isolating a protein or protein fragment corresponding to a marker selected  
20 from the group consisting of the markers listed in Tables 1-4;  
immunizing a mammal using the isolated protein or protein fragment;  
isolating splenocytes from the immunized mammal;  
fusing the isolated splenocytes with an immortalized cell line to form  
hybridomas; and  
25 screening individual hybridomas for production of an antibody which  
specifically binds with the protein or protein fragment to isolate the hybridoma.

52. An antibody produced by a hybridoma made by the method of claim 51.

53. A kit for assessing the presence of human cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.

5

54. A method of assessing the cervical cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and

10 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4,

wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound

15 possesses human cervical cell carcinogenic potential.

55. A kit for assessing the cervical cell carcinogenic potential of a test compound, the kit comprising cervical cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in  
20 Tables 1-4.

56. A method of treating a patient afflicted with cervical cancer, the method comprising providing to the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-4.

25

57. A method of inhibiting cervical cancer in a patient at risk for developing cervical cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-4.

Table 1

## Sequence 1

GCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGGAATTATAT  
GTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATGAAAANTTAAATATTTAG  
T  
TTGGGATTTGAGACTTCGATCTAGGCCTCTGNATTTCTTTCTAGTTTTTCCCTACCAT  
T  
CTTTAATCGGAGTATCCAAGCCCAATCACCCCTGTANCCTATGTCCTAAAGCATCTTGAAT  
TGNTTGNTTCANGTTTTTNCCTTCATGNAGGAGTGTCTTTTGCNCACNCCTCTTAAGCC  
TA  
TCTGGATCCCCACTTCANNCCTCTGAAGGGTCTGTAAAANTTCTAACCCCTATCTNT  
AT  
NGAATTTGTCCCC

## Sequence 2

GCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTC  
CGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCT  
TTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG  
CATCCAGAGAAGCTGGCTACTGTCCTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGG  
AATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 3

CGGAGAGGAGTCCTTACTTAGAGTNAAGCTGAAGGAGCATCACAACCCCAAAGACTGTTA  
TGTTGTGAAATTTAGGCTGTGTTTTAATAATACTGATGATGATANGATGAAATAGTAAT  
T  
TATTGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTCGGAATC  
T  
CATTTGATCCTCATAGTTTTTATTGGTGTATTATTATCCTCATTTTACAGATACAGAAAC  
TGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGA  
GGACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTTCCTTAATGTTTAGAA  
TATTAATAAGTTACTCAGATAATCTATTGGAATTTTCTTCATGGCAGGGGGAAGAGGCTA  
GAGTTG  
G

## Sequence 4

TACTCAGTTTCCTTATCTATAACATGGGGATAATATTANGTATGCTACATCCGTTGTTA  
T  
GAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTNTACTAAATGGGNAAGG  
TCTGGCNGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGCTGAGGNGGGG  
GCAGTTGGGGAGCGAGGGGTTGTACTACTNCAATGTAACCTGCTTTCTCAGAAATTNAGG  
CNAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCNTGCCTTT  
AAGGAGCTTATAGTCTAGTTANGAAACCAGACTTAAACATATGAAAAGTTTAAACATTGG

## Sequence 5

CTCTTTCATTGAAAGGAAATTANGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGA  
GGCTGGCTTATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATTGC  
CTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAGTCAGCATGTC  
TC  
TAACCCAGAGCCAGGCTGTGCTTTTTTTGTACCT

## Sequence 6

CGCGGTGGCGGCCCGCCGGGCAGGTACCTATGACCATCTTACATTATTTTTATGGGTGGG  
GGGCATTGGCTGTGGAATGTGGGCAGTAACCTGCACAGTCAGTAACCGTNNAGTAACCTG  
GTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCCACCTCACACGCTGGTTTG  
TGGGCGGAGGGGCAGGTTGGTGCCGTGGGGTGTCCGGGCAGTGGCTGTGCATGCCCTTCTT  
CCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAAGTCACCAGTGACCAATTCTCCCAGT

Table 1

GT

TTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAAAGCCGACTGGCAAGTTTCATT  
CTGACCAAGCTCTATAGTAGTCCGGNGTGGACCTCTTGCCCTCCCTGCTCTGCGGAAAGC  
TTNCTCAGCCTTTGCTTCTTCACTTATTTACTATTTGCGGGGTCTGGGGGTACCCCTC  
GG

NCGCTCTAGAACTAAGTGGGATCCCCCCCCGGGCTGCAAGGAATTGGAATATCAAGCCTTA  
TCGAATCCGTCNAACCTTCGAAGGGGG

Sequence 7

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC  
ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGGAATCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCCGGA  
TT

CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 8

AGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAAC  
CAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACC  
ATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGCAAGCATCCAGA  
GAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAAC  
TCAGCGGAATTGTATCCGTACCTCGGCCGTTCTANACTAGGGGATCCCCCGGCC

Sequence 9

GGTGGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGGAGCTGTGGC  
AGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAGAGCTTACCAAGGAGGTGGCATTG  
CACTGTGCTTAAGGGGCAAGAAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGCTGA  
AGTGCTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCACCAAGTCAATCATGATGGCT  
GCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAGGCTGAGGGTGGGAAGA  
TTGCTTGGGGCCAGGAGTTTGAGACCAGTTTTGGGCAAATTGCAAGACCCTGTCTCTGCA  
AAAAAATATAAAATGTAGCTGAGTGTGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGA  
GAGGCTGAGATGGGAGGATCGCTTGGGCCTAGGAGTTCGAGGCTGCAGTGAGCTATGATT  
GCACCACTGCACTCCAGCCTNGGTGACAGAACANGACCTGTCTNTAAAAANCATTAAATT  
AAATCAAAAAAAAAAAAAAAAAAAAAAG

Sequence 10

GGTGGCGGCCGAACATCCTGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCAAA  
ATAAAATTTAGAAAAACAATTTCTTATAAAATTTCTGTTTGTATTTGGAATACATAAA  
CTGGCTTTAAATTTGAGAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAAC  
AAAAAGATCACAGCAATTAGGCCCGTTCTATTCAATTTGCCATGAGCTAAAAATCACAT  
TCTTCACAAAGTAAATTACCGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGT  
G  
ATCTGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTTTATTTAT  
ACCTTAATGCCCGGAGAGGTAATATTTTACTTTAAATGCATAACCCATGTGGACATGCT.  
AGGTCTTCCAAA

Sequence 11

GGTGGGGCCGGGCCCGGACCCGGNCCAAGACCTACCCGCCGGNGNANTTGGCCTNNGGCC  
CTGGGGTTTCTCCCNAGGGGAAGCCTTGTAGAATCCACCTNNGGAAANCCTTGTNNGGTN  
CCGCTTGCCCCGTNGNATGGNTGGNGTAGGGGAAGGGCAAAGTACGCCTTCAAGAATAGG  
NAAAAAAGGGANGGGGGGGGGNACCACTCAAGGCCTGGCAAAGGCCAAGTGGGACCAAG  
TGGCCCAAGGGGGCTTCTTGAATGGTGGNTCTCTACAAGCTTTGTAANAAAGGTGGTG  
GAAGAACCAAGCCTTGNCCCTTTTGTGGGTGCGNGNGACCTTGAATAAAGGGCCAAAAGG



Table 1

AAGTTTTGGTTTCCCTTGGCCCCNTTTTCCCTTNTTTGNTTGGAACTTTTGGGAAA

A

GAAAACCCCCCTTGGGACCTTTTTGGTTTTTCTTTGGCNAAAAAGGGGGCCACCCC

TTGGCCAAATTGGATGGTTCCTTGNATTGGTTTTCCGGTCGCTTANGGGGCCAATT

NA

NAANTTGGTTTGTAAGGGGAAAAG

Sequence 12

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTGTGTTTGTATTTTAGTAG

AGATGGGGTTTCACCGTGTGGCCGGGCTGGTCTTGAACCTTGATTTCAAGTGATCCGT

CCACCTCAGCCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTTT

CTTTTTTTTTTAAACGAAAAATGTTTTAATTGACAAATAAAATGATGTATATTTA

TGGTGTGTTTTCTCTTTGCATCATCAGTCTCTTCTCATCACTGAAACCTACAAATATT

TAAAATCTTCCATTAAAAAATTTGCTGATCATCAACCTCTTCAAATTATTAAGAG

ATACTTACTTTGTATGAAAAATTTGTCGAGATGTATAATCCATTTTTTCTGGGAAG

Sequence 13

TTACTTAGGGCGAATTGCGNCCGAGGTACCAGGTGTCATTCTGCAGCAGGATTTAACAC

GATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAAGGAA

AGACCTGATTTGACTGCTGTTGGTTGGTAGTGTTCCCTGATCCGGAGCCAGTTTTGTGG

GAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAAA

ACAGTAGAATCGTACCTGCCCC

Sequence 14

TGGCGGCCGAGGTACGGTATTCTCTTCAAACAAGAGCAAGCCCATGATGATGCCATTTGG

TCAGTTGCTTGGGGGACAAACAAGAAGGAAACTCTGAGACAGTGGTCACAGGCTCCCTA

GATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTG

GAGGGACATCAGCTGGGAGTGGTGTCTGTGGGACATCAGCCACACCCTGCCATTGCTGC

ATCCAGCTCTNTTGATGCTCATATTCGTCTTTGGGACTTGAAAATGGCAAACAGATAAA

GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTCTCCTGATTCCCAGTN

TCTGGCCACAGGAACCTCATGTCGGGAANGTGAACATTTTTGGTGTGGAAAGNGGGAAAA

GGAA

Sequence 15

GCCCCTGCCCGGCTGGTTATGTAACAAACAAAGTCTGTGTCTGTGTGGAGTGTGTCAGGA

CGAGTGGAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG

TTCCAGTGCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCATAAAAAGGGTC

AGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAG

TCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAA

GAGAGGCTGAGGTCAGCACGAGAGACAGCCAAGCGGCCTGTGGGTGGCTTCTTCTGGATG

GTTTTCAAGGAAATCCAACA

Sequence 16

CGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGAGGTAATTTAATGCCATTTTCATGGGA

CACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGG

NNGTGGTGAAGTCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGG

GGTGGAGGTGGTTGGATATGGGGAGTT

Sequence 17

TTGCGGGTGGCCCCGGCCGCCCGGGCAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGGCA

TTACAGCATAGGGGTCCCTTTTGTGAGGGATTTATGATGGCATCACACGCAGGATTCAGA

GAGCATNAATTGAAAAATACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCC

AGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCGGGAGTTCGAGACCAGTCTG

ACCAACATGGAGAAACCCTTTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTGGCAC

ATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACC

Table 1

## Sequence 18

TNCCGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCA  
TTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAGTGGCTCCGGATCAGGGA  
ACACTACCAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATT  
A  
ACACAGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACA  
CCTGGTACCTGCCCCG

## Sequence 19

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTATTTTTTTTT  
T  
TTTTTTTTTTTTTNCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATT  
TC  
TACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCCTTGGTGTCTTTCTG  
TGTTCAACCAGATCAACTGGAAAAGTATAGATACCTTAATTAGCACTGTGCTCTGNNGGA  
TTCTGGTCAGCCTGGCCCACTGGTTTTTTTCCCTGAACACNCCTGAAAGGGGAGCTCAT  
AATGACTGCTGTGCAGGTGGGCGGGGAGGGGGCTTCCTATTTGATTTAGNNGCTGATCAA  
TGCCAGTTACCAATTNTNGGTNGCCCCATTTATACATGGNNGAAAAAAGTACCT

## Sequence 20

GAGGTACCCAATTTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTTCAGGGT  
G  
TCCATTAAGAGCATCTGCGAATTGTTTTGCAGGGACTCCTAATCAGTCAGGAGAAGT  
AGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTACCAGGACACAGCTCCT  
CTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAAACAG  
CAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTTGGT  
TAAAAATACAACCTTAGGCCAACTGCAAGTGGCTCATGCCTGTAATTAATTCCAAC

## Sequence 21

GTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCAATTACCAC  
AGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAGTGGCTCCGGATCAGGGAACACTAC  
CAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACACAGA  
TGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACGCCTGGTA  
CCTGCCCCG

## Sequence 22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAGACGTT  
GATAGGACCAGACCAGACCAGGCCCTTGTAGGCCATGGAAGGACTTTGGATTTTACACCA  
GTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAAT  
TTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGG  
AAGAGAGCAGTTTGAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGG  
C

## Sequence 23

CGCGGTGGCGGCCGAGGTACANAGTAGAGAGAGTTCTGCAGGGATGAACGTGGGAGACGT  
TGATATGGACCAGACCAGACCAGGCCCTTGTAGGCCATGGAAGGACTTTGGATTTTACACC  
AAGTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACA  
ATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAA  
GGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGGC  
CCAGGTTGGGGT

## Sequence 24

CCGCGGTGGCGGCCGAGGTACAAAAAAGCACANGCCTGGCTCTGGGTTAGAGACATGCT  
GACTGATGAGATACCAAGGCAGCTGCAAAGGAGAGTCCGGTAGTGAAGGGCAATGCGCT  
GTTAGCTCTAAGCAGCCTTGCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGA  
CTCTGACGGGCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCAT

Table 1

GGTACCTGCCCCG

Sequence 25

CCGCGGNGGCGGCCGCCGGGCGAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGT  
TTTGTAAGTGAACCTTTGTTTTCAGTTCGCGCTCCAGCCATCCTGGGGTNGCTTGCCA

AT

AGATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCC

C

ACAGCAGTGCATGTCCACCATAACACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC  
TTCTTTCTTACAC

Sequence 26

GCGGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCT  
CCATCACACGCCCCAGAAAGGACAAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATT  
GACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAG  
TTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGG  
ATCATAGTTTCTTGGAAGTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCC

GG

ATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 27

ACGCGGCGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCT  
CTCCATCACACGCCCCANAAAGGACAGTAGCCAGCTTNTCTGGATGCTTTGCCAAGCAAT  
TGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCA  
GTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAG  
GATCATAGTTTCTTGGAAGTCTCTGTAAGNCNCAACTTGGTTATCGCCGGACATAATTGG  
ACCCGGTATTTCCGGCTCAGNCATCTTCACCTTTCATCTAAGGNTTGCATNTTCCGGGCC  
CGNTCTAAGAACTAGTGGGATCCCCCGGGGCCTGCAGGGAATTCCGATAATCAAAGGCT  
TAATCTGAATACCCGGTCGGACCCTTCGGAGGNGGGGGGGCCCCGGNTACCCCAAGCTTT  
TTTGGTTTCCCTT

Sequence 28

CGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCTACATCGT  
TGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTT  
TAAGGNCTGGCAGGCGCGGTGGCTCACACCTGGNATCCAGCACTGTGGAAGGCTGAGGT  
GGGGGCGAGTGGGGAGCGAGGGGNTGTTACTACTCCAATGTAAGTCTTTCTCAGAAATTA  
AGGCAAAAAGTCTTACTGACCATGTNAAGGAAATCCAACAATTATAAACAGTCTCTGCCT  
TTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAACATATGAAAAGTTAAACATTG  
GCCAGGCACAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGAT  
CACCTGAGGTCANGAGTTCGAGACCAGCCTGACCAGCNTGGAGAAACCCCATCTN

Sequence 29

GCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCT  
ACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTA

C

TAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAG  
GCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTC  
AGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGGAATNCAACAATTATAACAG  
TCTCT

Sequence 30

GGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTACGTAGCTACAT  
CGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAA

A

TTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGAAGGCTGA  
GGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTCAGAAA

Table 1

TTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCTG  
CCTTTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACA  
TTGGCCAGGCACAGTGGCTCATGCCATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAG  
GATCACCTGAGGTCAGGAGTTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTTTA  
CTAAAAATACAAAAGTCTTGGGCATGGTGGCGCATGCCGTGTATCCCAGCTACTTGAGA  
GGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTGAGCGGCCGCCCGG

## Sequence 31

CCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTA  
GCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTT  
C  
TACTAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGG  
AAGGCTGAGGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTT  
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAC  
AGTCTCTGCCTTTAAGGAGCTTTATAGTCTAGTTAAGAAA

## Sequence 32

GCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATC  
ATGATGTTACTTTGATTCTCTGACCAAAGTGGCCTGTGAGCACCCCTGGGCCTTTCTTC  
CT  
CTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGT  
AAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAAAAGGATGTA  
ACACGGGGCCACATCCTATGCCCAATCCAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAA  
CCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAAGTCAAGTGGGAAG  
GGGAGTGGGCTGTAAATAGTTTAAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGT  
AGAAAGGTAACAGTCAACAGTTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTCCTCTTGCCCA  
GCGTTTCTTTC

## Sequence 33

CCGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAG  
TTCATATCATGATGTTACTTTGATTCTCTGACCAAAGTGGCCTGTGAGCACCCCTGGGC  
CT  
TTCTTCCTCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAG  
AGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAA  
AAGGATGTAACACGGGGCCACATCCTATGCCCAATCCAAGGCAGGGAGGCAGGGAAGTG  
GCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAAGTCA  
AGTGGGAAGGGGAGTGGGCTT

## Sequence 34

GCGGCCGAGGTACCAAGTTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTGCCACTTGC  
AAATTCGGTAGCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGG  
GCTAATATGAGTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCCACCCCCA  
T  
CATTAAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAGTGCATATTTG  
G  
AAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAAGTTACAGTATCTGTTTCCC  
A  
CAATACTTGCAAGTCATATCAGTTACAACCGCTGGGTGTGTATTGGTTCAAAGGACCTAC  
CTACAAGGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTTCTGAATCCAGTTAAA  
A  
TAATTTTTGGCTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC  
CAAGAAAGCCAAAAGGCCCGGCAAC

## Sequence 35

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC

Table 1

ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGC AAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGAACTCTCTGTAAGTCCAAC TTGGTTTCGCGGACATAATTGTCCGGA  
TT

CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 36

CATNTGTGTTTTATTGTGAAGGGTCTCAACTGTGTGGCTGATTCAGGCTGTCCCCACTG  
CAATGTAGGGAGAGGAGAGAGAAAGGGATGAAAGTGAAGGCAGGGGGGGGGATGTTTGTTC  
ACCGGGGTGAACTTCTGCCTGAGCAAGNTGATGTTGGCTTCCGANNGTATTTGGGACACT  
TTCTTTCAATACATNTNTTATTTAAGCACTTTATTCTGTGNCTGCTGCCCTG

G

Sequence 37

CCGCGGTGGCGGCCCGCCGGGCAGG\*ACGCGGGGGCAACATGGCGGCCTTAGCAAGCTAT  
AGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTCACAAGAA  
GAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACTCGGGTTCATATTCCTCAGCG  
AGTAGCGATTATGATGATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAG  
CTGTTTTATTTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCTGAGACACCAACT  
GTGAACCATGTCAGGTTCAGTGAAAATGAGATTATCATTG

Sequence 38

CCGCGGAGGTACTTAAGTTTTTCTTCAGTTACAGCTACCATGTGAAAATAATTCTCTGC  
T

TATCAAGTTTACAAC TTTAGAA TTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACA  
GTCATCTTCTTTTTGCCAAACGCTATAGTAGCACATTAAAAGGAGACTGATGTGAAATCA  
ACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACA  
CAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAGAAAAGGCTTAATAATGGAGATGAGG  
CCGGGCATGGTGGTTCACACCTGTAATCCCACCTGTTTGGGAGGCTGAGGCAGGTAGATC  
ACTTGAGACCAGGAGTTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTT  
NAAAANTNAAAAANATNNGGTTTCTGCCCGGGCGGGCGCTTAGAACTAGTGGGATCCCCC  
GGGCTGCANGAATTTGATATCA

Sequence 39

TCCCCGCGGTGGCGGCCCGCCGGGCTGGTACGCGGGAAAGCAAACGACAAGCACGCCCT  
GAGCAGAGCCCCGGGAATTCAACCTTTAAGTGGATAACTTGGCTTCTGGTTTGCCAAGGA  
ACCAGGGCATCAAACAGATGAAACAGCCTATTGTCCATTTCAACAGATTTTTCAGGAGT  
GGGGATGATCTTTCAAATTATCCACAAC TTAATTATTTAATATTTTGATAGTCAATTACC  
TAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCA  
GCACTTTGGGAGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTCGAGACCAGCCTGGC  
CTACATGGTGAAACCCCATCTCTACTAAAAATACAAAATGAGCCAGGCATGGTGGGCAC  
CTGTAATCCCAGCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAA

Sequence 40

GCCTCCCCGCGGTGGCGGCCGAGGTACAGTTTAGAAAAC TGTGGGGCTGAGTCCTCGGGG  
CCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTATGGGGATACATTCTCTTA  
GACATTTTGAAGTAATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTC  
A  
TAATCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATAGAAGCG  
A  
GAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGATGTAGCTGCCATTATAT  
TCATTGAGGTATTTTCCAAAAAAGGCTGTTCTGTAGCCAGTGTTGTTAAGATATACAGCA  
AAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTG

Table 1

TAGACATTGTGATTGTGCACATACTTNC CGGTGAGCATGGAGGACCGTGACGGGCAGCAC  
ATGGGGTGTAGTCACAAAGGCATTGATGAAGGTGGCCCCCATGTT

## Sequence 41

CCCCGCGGTGGCGGCCGCGCGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATAT  
GTATACATGAGCCATGCTGGTGCCTGCACCATGGCACATGCATATCTATGTAACAACT  
TGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAGAAAGAAAAACAG  
CATGCAATTCAGCCACACAAAAAAGAAGTCAAAGACAGCGAGAATTCCTAAACAGC  
AATAAAAGTATAAAGTCACTCTAAAGGAATCCCCGTTAGATTAAACAACACATTTCTTA  
GAGAAATCTAACAGGCCAGGAGAGAATGGGATGACATATCAAAGTGTTAAAGGGGGGA  
AAAACTCCACTCAAGACTACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAAACA  
TCTTCCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGCCTTACCAAAAA

A

## Sequence 42

NTTGGAGCTCCCCGCGGTGGCGGCCGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGC

T

ACCAAATGGAACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGCCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGC

T

ACCAAATGGAACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGCCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 44

GGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG

C

TGAGNGGAAGGATTGCTTGAGCCAGGAGTTTGAGGCTGCAGTGAGCTATGATCACAAAC  
ACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACTGTAAAAAATTTTTTACATT  
AATTTTTAAAGTGAGGTTTTTACCTGATGATTGNGTAGGTTTCTCCTAGCTCCAAAGT

A

TCCGGCTCCTACGACTCTAAATATAACCTTCAAGGAAAGNGGAGCTGGTTTACTCTTTTC  
TGATAATATCAAGCCATTCCTGGCTGGGCGTGGNGGCTCATGCCTATAATCCCAGCACTT  
TGGGAGGCCCGCGTACCT

## Sequence 45

GGGNGGCTCCACCGCGGTAGGCNCGCCGCGCGGGCCAGGTACGCGGGNAATTCAAGGAT  
GGGATTAAAGGATTTAAACCGTTTGGGACCCTAAAAGCATAAAAACCCCTTAGAAAGGAA  
AATCTTAGGGCAATACCCATTGGAGGGACCTTAGGGCCTTGGGACCAAAGGACTTTCATG  
GACTTAAAAACCACCCCAAAAGGCAATTGGGCAANCCAAAANGCCCCAAAATTAGGNCCA  
AATNGGGGATTCTTAACCTTAAACTTTAAAGGAGGCTTTNTTGGCCCCAGGCCAAAANG  
GAAAACCTTTCCCTTCNAGANGNGGGACCCNNGGCCANCCCTTCCNNGGAATNGGGGG  
GGGAAAAATTT

## Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCCCTCCAGCCTG  
AGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAAGATGTCAGTGCTATTTATAG  
TAATACAAAATTTAATGTAATTTTGTCAAAATCTCAATGGTATATTTTGCAGATTTT

Table 1

TCAAATTATATATATGATTTATAAATTATTGTTATAGATTCTTGAAAGTTAATCCAT  
CTCACCATTACATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAGACCATCCTGG  
CCAACAAGGTGAAACCCCATCTCTACTAAAAAT

Sequence 47

CTAACCTCACATTTAATTGCGTTTGCCTCACTGCCCCGCTTTTCCAGTCCGGGAAACCT  
TGTTCTGTCAGCAGTCAATTTAATNGAATCGGGCCCAACNGCCGCGGGGGGAGGAGGG  
CCGGGTTTTTGGCGGTATTGGGGGCGCCTTCTTTCCCGCTTCTTTTCGCTCACTT  
GAA

CTTCGCCTNCCGCCTTCGGGGTCC

Sequence 48

CGCGGTGGCGGCCGCGCCNAGGTACAAGNGACAATGCTGGATGCCAAGCAGNTCCCC  
CCTACCGTCTCACTGCCCCTCAAGACTTCAAGGCCACTCTCCCCATAAACATCATGACTA  
CAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCA  
AGATGCCATTTCTGCATCTCCAGAAAGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT  
TCGTTGGGCTCCAGCAGTGTTCCTNCTNCTCCACCCTGCACTTCATTTNGTCTTTCC  
CC

CCCNAACTTTT

Sequence 49

GCGGCCGAGGTACAACCTAATGGAGCTCAGAAGCTGTCAAGGATATAAGCAGTGCAACCCA  
AGACCTAAGAATCTTGATGTTGGAAATAAGATGGAGGAAGCTATGACCTACACAGAGGA  
CAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCAGACATCAACTGGCA  
AGGCCTAGAGGAGCTACACAGTGTGAATGAAACATCTATGAGTACCTGCCCCGGGCGGCC  
GGCTCTAGAACTAGTGGATCCCCGG

Sequence 50

GGCGGCCGGANGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTAC  
ATCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAG  
TATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGG  
CAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAA  
TTTGAATCTAACTCAGCGGAATTGTATCCCGTACC

T

Sequence 51

NGGCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCTCCGTG  
CCTTCAGAACTGAACGCTAGGAGGAGCAGNCAGNGAGGACAGACGTCTATGCAGAAACA  
TGGNGAACCTCTGGAATGACACACTCTCCGGGCNCAGGGGGCCATTCTGTCATCTTTGA  
GGTGGACTAATCATGGAGATTCTNGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGA  
GAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTGCGGGGGCTGATGAGTGAGGTGGC  
AGCAGGCATCCGCGTGGTTTTGTTGAACTGGACTTTTTATTGTGCTGAAAGCTGTTT  
GT

TGTGATGATCTCATACTTTGNAGTTGNTCTATCTGCANCACTGACTTTC

Sequence 52

TCGTTNGAAGCCCCCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTGG  
CA

TTCTGAAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCACTGAACNG  
GG

CACCCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCCTGAGTTCTAGAAAAGCATTTT  
TACTAGTTCTTCAGTAATTTCCCTCCCTTCATTCTCTGTTCTTTTTCTCGGACTC  
C

AATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGG  
GAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGCANAAGGTGCTAACAGGTGGNTTTTNT

Table 1

CTTTAGGATGAGCAGGTGG

Sequence 53

GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAG  
AGAGTTCCNNGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATA  
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAACCAATTCCTTGCTTCGCTG  
GATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTC  
CTTTCTGGGGCCGTGTGATGGAGAGGTTAGAAATTTGGAATCTAACTCAAGCCGGAAATT  
GTAATCACGTACCTCGGCCCGCTCTAAGAACTAGTGGGATCCCCCGGNGCTGCAGGGAAA  
TTCCGATATCAAGGCTTTATCGATACCGGTCNACCCTNGAGGGGGGGGGCCCCCGGGTACC  
CCAANCTTTTTTG

Sequence 54

CCCCCGCGGGGCGGCCGAGGTACACTGGGAAAATGAAGAACTTAACATATAAAAAATAG  
AGGGACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGATTAGATG  
ATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCTTTCTGTAAACTGGCA  
A  
TTTGGGAAGCATCACTGGATAAATTTTATTGAATCTATTCAAGNCAATTCCTGAGGCTT  
T  
AAAAGCTGGGAAGAAAGTGAACTATCTCATGAAGAAGTTATGCAGAAAATCGGTGAACT  
CTTTGCTCTAAGGCACCGTATAAACTTTGAAGTTCAGGACCTTCCTGATTACTCCTGA  
TT  
TCTTACTGGGGACAGGAGAAAACCNNGGAAGGGACTTTACCGATAAAAACCGTGGTCAA  
ATTCCTTTAGCCATTTGGCCCCGAAAGANGTTAAGGGTCCAATGAAATTGAAA

Sequence 55

TAGCAGGAGCCCCAGGAGTCTGAGCGGNGGGACCCTCATGTCCATGCCTGTTGTCCCTGG  
ACNTGAAGACCTGAACTCCCCCGCGTACTCTCGGCCCGNTTCTTAGGAACNTAGGTGGG  
ATTCCCCCGGGCCTGCTAGGGGAATTTCCGAATATTCAAAGGCTTAATTCGAATACCCCG  
GTCCGAACNCTTCGNAGGGGGGGGGGGGGCCCCCGNNTTACCCCAAGC

Sequence 56

GCGGCCGAAGAGCACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAACCAATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAA  
GCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTG  
GAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 57

CAGGGAATGGGNGGNGGCTNCACCTGGGGANNCTGAGGCCCGTGTTTGTGGAAGATGTA  
GATTCCTTCATGAAACAGNCTGGNAATGACGACTGCNGATACAGTATTAAAGAAGACTGG  
ATGAACAGTACCT

Sequence 58

CGGCCGCCGGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTTTC  
ACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCNCGTGTCAGNTCCAAAAATCCTA  
AGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAATATTGCCACATTCT  
T  
GAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTTTCA  
A  
GAGTGAAGAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAGGAAGATTAAACATA  
TTTTTATCCATTTCTTATGGTGGNNNNATTACATGTTTTAGATTGAGGTCCCCCTCTC  
A  
GGAAAACCTTTCAACTTCGTATTATTCACTCCTGAGTAGTATGGGGGTAGAAAAATGAG  
TGGGAAATCAGTTTGGTCCACTATTTTCCCGAGTCTTTCTTGCACTTGCAAATACTTTC  
A



Table 1

TCAAATATTTTACCAAAAATTCTCANGCNCCTGTTTACCAGGATGGTGGTATCACNATC

A

GGGCTCAAACCAAAGNTTACAGGAAATTCTNTTGGNNGGTTTTTATCCTGGGACNATTC

TAAATTTTAAAAAACCTAAAAAAGGTTATTTATTTCTTCNCNAATTTATTCANNTGNTTT

TTTAAA

Sequence 59

CACGCGGGAAAGATCAGTTGNTTTACCTTGGCATTCAAAGACTTTTCTTTGACTCCCATG

GTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGNNGGNGGGAACGTGTTAGCA

CTGCAAATTCTATTCTCCCTAATTTCTGAATCANAAATTACGGAGGTGGAGCCCAGC

AATCTGTTTTAACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGGAGAACNCGC

T

GATCTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGTTAATTG

A

CCTTGTCCAGTCATACAGCTAGGGTCTGTTTTCTATTATTTATTTATTTATTTTATTTT

TTTTATTCACTTTACCCCCCAGGTATTCATAGNTTCTTTCTAAATACTCCATATTTGGA

CTTGACTTTTTACAAGTTTGTAATTACCAAATAAAGTCTAAAGATGGGGAAAGGTTGTGG

GAAAACTTTATAGAGAACATGAGATTTTGAAGTGAACCATTAAGTAGAGAGNAA

AAAGAAAGGGGTGTTCTAAAGCAGTAGGGACCACAGTGAATAAAGGGAGAAGATAGGGAA

GNTTTAAAAAAA

Sequence 60

ACATCCTTTTGGAGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACG

AGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGNGATGGAGTCAATTGCTT

GGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAG

AATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 61

TCCACTCCCGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTGTAGTCTCT

GTTCTGCCCTTTGGAACATCTNTTCGGTGTTCTGTGGGATCTCTCTACTGCATTNTA

CT

TTATGTAATAATCTGTTCAATAAATAATTTTTAAAGGAGACAACAACGCCGCGAGGTGAT

CTGGAGGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCGAGATCAG

GCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCA

GAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCTGC

TGTCAGTGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGT

AAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGGAACCTCANTGCTGCAGCCTCAA

AGAATTGACTTTAA

Sequence 62

TGGCGGCCGCCCCGGGCAGGTACAATGATGGCTGTCAACTTCGTTTGTTTAAAAAAGACA

ATTTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACG

TAGGCTCGGAGGATGGGTACCT

Sequence 63

TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCGCTTTTCCAG

TT

CNNGGGAAACNCTGTTGTTGCCAGNCTGCATTTAATGGAAATCCGGCCAACGCCGCCG

GNGGNAGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTTCCCGCCTTCTTCGGCCT

TCAACTTGACTTCGGCTTGCNCCTTCGGGGTCNGTTTTCTGGCTTGCCGGGTTCGAGNCCG

GGNTATTCAANCCTTCAACTTCNAAAGGGGCCGGGGNAATTACCGGGTTTAATTCCCAAC

CAGGAAATTNAAGGGGGGGAATAAACCGCCNAGGGAAAAAGGAAAACANTTGTGGAAGC

CAAAAA

Sequence 64

GGGCGNTGGGCTGGAGGAGNGGAGCGGCNNCAGNAGGGGGGGCGCCGGCCNCCCCAGCAGA

Table 1

NGNCTCCAGCAGCAGNNGNANCTCTGAGGCTCCANCNCCCACAGCACCGAACAGNGGGNN  
CCAGCINNCCACCAGGGGACCCNGGANCCCGGGCGACGGCNGANCCAACNCNGAAGGAGNC  
NNAACCTNNNCNNTTGAGCGGNGGNNCNCNCCC GCGACCCCGAGCAAAAGGAAGCCAG  
CNGGAGGGGCGGNGGANNGACGCCNCGGGGGGCACAAACAACNNCNAAGGAAGAANN  
NGCCACCCACCAANCCNNANCAANACAACAAANGAANCAANACAAACANAACCCAAAAAC  
GAGNAAAAAAAAA

Sequence 65

ACCTTTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTGAGTCTCCTGATANGGNGG  
T  
GATGGGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTGCCCTG  
T  
CCACTGCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATACCGAGCNGGTCATGACA  
CTTACTCACGTCAATCACCANTTTTTTTGNACCTGCCCG

Sequence 66

GCGGTGGCGGTNTCCCGGGCAGGCCACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCC  
ATCCCATATTTAGGTAGATAGAGAAGTGTGTATGTGTGTGTGTGTGTGTGTGCTCGCA  
CAGTGATGAAGTGAACATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATG  
ACAATTTCACTAGACTCCTATCAAAGAGTATCAGTTCACAGTTNNTNTAGATACTAGTA  
T  
AAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCANGGCTTTACAATTTAGCAGTNTG  
NAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCCTTAAGTGTATTTTTGTGACCTA  
AAACATGAAGTCAGGGTTTCCAAATTCCTAACAA

Sequence 67

AGGTACTTGAAGGATAAGAAATTAAGTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC

Sequence 68

GGATAAGAAATTAAGTGTGTCAAATTACCCACAAGTTNNTTGGCCATGTTCCAGACCTGTG  
GCTCTTAGTATCAGGCTTGNGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT  
AGACCAAAGGAAACCACCACAGGGATTTACAGGC

Sequence 69

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATTTTCATCTTGACCCGCAATAC  
CAGGGATTGTTGCGAAGAATCAGTTGTGTTATATGTCCAAATCATCAAAGATACCCTGA  
GGTAAATTAAGTTAGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAA  
AAAGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCCTCAGGTTT  
GTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCGCAACCAGGGACAGCTCTGTC  
AAATTAAGTGGTTGAAGAAAATTTGTCACCTAAACCATGATTGTTCAACAGGTTTCCA  
TCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGAT  
ATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTG  
CTAAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGAATGCTCCC  
TCTTNTATGCTAACTGCAGAGACAGAGTTGNCATCTAAATGTAATTCTTCCAGATAGG

Sequence 70

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGGTTTCTCTG  
ATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAGCCACACAGTCCAGCAGAC  
CTATATAGTTTAAAGGTTTCATGTTGAACAGCACTTTCAAGAGCTCGCACTCCACTGAC  
AT  
CTTTCAGAATATGCTGGACACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTC  
T  
CTTTAAGGTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TT

Table 1

GTAAAAAGACGTTTGAAGTGATTCTTTAAAGCCATCTTCTCCAGTTCCAGAATCATC  
C

CGCTGTTTCCACCTCTCCAACAAAGAAAACCTGTTGTTTTGGTCATGGTCTGCTGAAGGA  
CTCGGGTCACACTTGGTATCACATTCTTTGCAAGGGGATTTTCAA

Sequence 71

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC

Sequence 72

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATCATTTATTCAAGAGGCAGA  
TTTTAAACGTTTTTGTA AAAAGCTAAATAACACCCAGAGTGACTCAAAAAATTTCTCAA

C

TTTGCCCAAGTGAATAGTAAGTCTAGAGTTTTTTGGGTTTTTTTTTTGTGACAGAGTTT

C

TCTCTGCCGCCAGGCTGGAGTGCAGTGGCGATCTTGGCTCACTGCAACCCCTGCCCG

Sequence 73

GGCGGTTNTGGGGGGCAACACCGANCCGCAGAGNCACACTNGCAACAAAAGGNACTTNTT  
TGGGGGGGGGAAAAACCCCGGCCCNCCNGNCCAGCNGGACCATCNATTTNNTCCNCCNC  
CNCGGAGCNGCNCCCNAAAAAGCNCANAACAGNAGAGANCAGNNGNCNCGGNNGCAAN  
CNAACANANANNCANGCAANGGAGGNGNANCNCCATGCTTTTTNGNNGGGGGGGGNNGCG  
CNACGCNCCCNNGAAGAAAAAACGCCNCAGNAACGGGGGGGGGAGGAGCCAGCCNGG  
GCGGNCGCNCNAGAACCAAGNGGAACCCCCCGGCCNCGAGGAAANCCGAAANCAAGNCN  
NANNGAAACCCGNNAACCNAGANGGGGGGGGNCC

Sequence 74

CCGCGGTGGCGGCCGCCGGGCAGGTACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTA  
AGATCAGAGCATAGTAGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAGG  
GGAGGACAGAGCTTTTATTTTGCTCCAGGTTAAAAAGAAAAAAAAAGCACATTCAACTCT  
ATGTAGTGTCTGTCCAGGTCCTAGAACTGGAATAGACCAACCAAGCCCAACCCCTTCTTA  
AAAGTAAGACTNGGTGCTTCCTGATTATATATTCAACTGCCTGGAAGCATGCAAGTAAAA  
TTTCTTGATGGCATTCTAAGTTTCAAACATATTCTTNCTAACAAATGCATTTACAAAA  
AAATATTAGGGATTGNGGTTTTTTTGGTTNGGACTTTAAAAAAAATTGTTTTNAAANC  
C  
ATAATTGGGGGCCCTACCCCAAATGGATTCTTCTCCCCTACAGGTGGAGGGTTTCATTT  
TTTC

Sequence 75

GCGGCCGAGGTACGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCT  
GTGCACTGAGCNGGCATCAAACATTAGTGGATGGCCTTGCGTCTCAATCTGCAGTAAAN  
AGGAACTAATCTGAAAGGGAANGANAGGACTGTGTGNCTTTTATTTTTTAAATACGG  
AGTGTGCANTTTTACTGAATCTTGAATCATGCC

Sequence 76

CTTGCCCTTGGNTCGGGGGCCNTTNNCCCCCAAGGGATGGGGNCCNTGGNGTANGT  
GTTNGNGGGCCCAATANGAGCGGANAGGTTAAANNCNAAGTAACNAACGACCGTAATCG  
TTGTAGTTCCAAATGGGGAAATTGGGGTNTTTTCGGGNGGAACCTTAAGAAAGNGGCCTT  
CCAAATTTGGNGGTTNGGGGGGAAAGGAAAGGAATCCCCCTTGGCCAANAAAAACNC  
CCACNCCAAACCCCAAGGAAAACCGGTTGGGGNTTTTTTGGGCCCCNTNGGAAAGGGGC  
NTNGTTCATACCTTGGGNANGGAAGGNAAAAAATGGAATTTTCTTGGGGGGGGGGCTTTG  
GTTCTTTTAATTGNAAAAAANATTNAATTAACGGACCCATTTTNTCTTCAACNAATTT  
AAAAGGCCCCCACGTTNNTTCAATTCATCCCCCAATTTTTNTCCCCTNCCCCTTTT  
T

TTANCCCTTTTTTTTCTAAAGNATTGGGCCAAAGNNTTNTCTTCCNTTTNTTTNCCA

Table 1

A

CCNATTTTNAANGGGGGCCTTGGGGTTTTNGNGTTNTTCAANAANAACNTTTTTTTTT  
GN

GGGGTAAGTCCCNACCCGNGNTANCNTTGGGTNCAAGNTTTCNNTTCTTTGGGGGGGGA  
AAAGGCTTGGNGGTTTTCCAANGTCCNTCCAATTNTCCTTGGGCCAAANGGGGGGCCTTT  
NCCTTCCCCTTCCCCTTNCCTTGGTNNCTTTTT

Sequence 77

AAAAAGNGAATTCCANCNTGGGGGGNCTTGGNGAAAAAGCCTTCTTAAACCANGGGCCAA  
TTTGGCNCAGGCCCCCTAAAGCCTTACCCTGGCCAAGTTTTTTGAAGAGCCAAAGGGGGGC  
CAAGNGGGTTCAACCTTTTAACCCCTTGCTTGGTTCTTGAAATTGGTCNTCCCCTTGG  
GGGAACCAAAACAAGGGAAGGGGGCCTTGGCCACCTTCAACTTGGGCCTTGGAGGTTCCA  
AGAACCAGGAAAAGGAAGGGGGAATCCATTCCGGGGACCTTGGGAAAAGNCCTCCTTGGG  
CCAAGGGGGTAATTGGGGCTTAGGCCCCNTGGGGTTTNAACCCCGGTTAAGTTGGAAGAA  
AATTNGGGAAGNAAGGGGGGCCCAACCCTTGGCCCCAAGCCNTTAAACCACCAAGGAA  
ATGGTTTTTTCCCCAAGGGGAACAAAACCAAGGGGAAGGGGCTTTGGTTGTTTCCCC  
ACCTTTGGNACCAAGTTTTTCAAGNACCAAGGGAAAAGGTTGGGGGAAAACCCCAACCT  
TGGGGGNACCCCGGGGAAAAGNCCTTCNTTANNCCAAAGGNTGGGTTTTGGCCCCCAA  
CCCCTTGGGGGGCCTTAANCTTTANAANTTGGGAAGGCCCTTTTTGGAAAANAACCCCAAG  
GCCCCGAAAAAAACCCAAAATTTAAAAATTTCAAAAAGGGGAAGGCCAAGNTTTTCNTT  
GGTNCCCNAAANAAGGN

Sequence 78

TCCCTTTAAGTGAGGGGTTAATTGCGCCGCTTGGGCCGTAATCATGGTCATTAGCCTGGN  
TTCCTGTGTGGAATTGTTANTCNCGCCTCACAAATTTNCAACACCAACCATTACGGAAG  
GCCCCGGGAAAGNCATTAAAAGTTGGTAAAAAGCCCTNGGGGGGTGCTAAATGGAAGNTG  
GAGCCTAANCTTCAACATTTTAAATTTNGCGGTTTGCCGCCTTCACTTGNACCCGGCTT  
TTTTCCAANTTCCGGGGGAAAACCCCTTGTTCCGGTNGCCANCCTTGNCCATTTTAAAT  
GGAAAATCGGGCTCAAACGNCCCCGGGGNGNAGAAGGGCCNGGTTTTTGCCGGTTATT  
TTGGGGGCCNGCCNTTCTTTNCCGGCNTT

Sequence 79

GAGGTACTTTGGGCCTCTCTGGGATAGAATGTTATTCACGCAGGCACACCAAACAAGAAG  
GGCAAGTTTCCAAGGATTTCACCTGCTTCAATCAAGAATGGGGCGGGGGGAAAGAATG  
AAAGAACCAGGAATGGGTGGCCAAGGCCACCAAGGTTTCGTTTTTNGANTCCTCCACCC  
TTTGGGGTTCCCCTTCCCGGCCCCGAAAAGGTGGAACCCCGNATGGTCCCCTTTCCATA  
ATTGGTTTTAACAGGGTAAAAATAACAACCTNGCAAGAAAATNCTTCAAGGGCCTCCC  
AAGNCCCTTGCNTTGAATTGGGTTGGAAGAAGGTGGAAGGTTCTTGGTTCCCCCAAG  
NACCCCACTTGGCCCACTTGGAAACCCCTTGGTCCTTGGCCGAATTGNTCCAAGGTN  
GGGGCCCCNTTGGTTTTGGGGAATTGGTAATTCAGNAAGGAATTGNAAGNGGGAAGC  
CCCTTTGGGGGGNAANGCCCCCTTGGGGCCCCAAGGGGTTTTTCTTGGGCNTTGGGGTT  
AACCCTTGGCCCCCGGGGGCCCCGGGGGCCCGGNCTTCTTAAGAAAACCTAAGGTNG  
GGGAATTCCCCCCCCGGGGGGCCTTTNGCNAGGGGNAANTTTTCNCAATTANTTCCAAA  
AGNCCTTTAATTCNGAATTNCCCCCGGTTTNGAACCCTTTTGNANNGGGGGGGGGGGC  
CCCCCGGGGTTNACCCCAAGNCNTTTTTTGGGGNTNCCCCNTTTAAANTNGGAAGGG  
GGGTTTAA

Sequence 80

TGGCGGCGATTACTGTGCGAGAGGTAAAGGATATATGTGGCTACGATTACGGCCTCTCT

Sequence 81

GCGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCACGGTGGGC  
ATGATATGCAGAGGGACTTGGGGCTTTGCCAAAGGGTAAGCACAAAGAAGGAGTCACGGG  
TTCTGTTGAGGCACTGTTGGGATTAGGAGCCGGAGGGGACCTACTTTTGCAGGAACCTA

Table 1

GCATAACTTTGTGTGACGAGACTGCACAAGACAAAGCTCANGCAAGTGGCTCAGTAGTTG  
GCCAGCCCAGCAGGGTCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAG  
CAGCAATTGGAGCTTNAGGACCGGCTTGCACTGTGGCTCCAGGTTATACCACCACTGCCC  
AAAGCAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGGAGAAAGCTG

Sequence 82

TGGCGGCCGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGGG

Sequence 83

CGAGGACCTTGTTGCAGCTCTTTATTTCTTAAGTCCCCTCCCCGAGGTAACACATT  
CT

GCTTTTTTAGCTGTTTCTCTAGTGTAGGTTACCTNGCTAATTTTGATTCAATCACT  
T

AACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATATTTTNTTTT  
TTTTTCCCTTCATCAAGGAAGTTCATCAAAGAATTTTCATCAAAGTTCATGATGACCTC  
T

TTTTAAATTTTCTTAGTATTCTATGTAAGTATCACCGATCTTTTCCCCACACACTTCAA  
GAGGCTTTTTTAAANATAATNTTTTACATAGGCCNTTGAGGCACANGATTAACCAAATCC  
CTNTTTT

Sequence 84

GTGGCGGCCGANGNACTNNGGCCTATNTGNGANANAAGGTATTNACCNNGNNCACAACAA  
ANGCATNNTCCATATTNNAACNGCTCATCATATGGNGNNAANATNNGACAGANGGTGCA  
ANCACNNTNCACTNGATATACNCCTTGGTNCCTCCGGCCGCTCTAGAANCTNANTGGGAT  
CCCCCCCCGGGGCCTGCAAGGGAAANTTTTGAATAATCAAAAGCCTTTATTCGGAATAAC  
CCCGNTGCNGACCCCTTNCGAAGTGGGGGGGGGGCNCCTCCGGGTAAACCCCCCAAGACCT  
NTTTATGGTTTTTCNCCCTTTTTTAAAGATTGNAAGNGGGGTTNTAAATNTAGGCCNG  
CC

CGCCTTTTGGGNCNGNTTAAATTNCAATNNGNGTTACAATTAAAGNCCTTGGGTTTT  
TT

CCCCTTGGTTGGTTAGGAAAAAATNTTNGATTTTAATTACCCNGGCCTTTNCNAACNAA  
AAATTTTTCTTCCACCAACCCAAAACCAAATNAAACCTNAANTCCCCCGNGGGGNAAGNC  
CNAATTAATAAANGATTTGGTTAAATAAGGCCNCTTGGGGGGGGGGT

Sequence 85

CCGCGGTGGCGGCCGAGGTACTTATATTACATTATGCTCAAATGCAAACACTTATGCTAA  
ATGTTATATTTGGGAACAAATTGTGTAATATACTGATGACGTCAATGGATCATTACAA  
T

TAATGTAGGTGCCGTGGGCAGGAAAGCTAACTTTANCTGAAAGCATCTNNAACGTGCTTA  
TTTTTCATGGGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAGGAANGGCTTGGCCAA  
TATAGTTCTTGTGTCAAGAACAAATCCCATTTCACAACAGAACTAACGCTGGCAT  
GCCATTCTNTCCTNAGGTTCTTGGCGTGCAGTGAGCGAGGCCNGGATGGCAGTCAAGGAT  
TCATTCCTTG

Sequence 86

CCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCCATCCACCGAGGCCCAAC  
AGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTGACAGCTATCTCACCAGC  
TGACACTTTACCATATCTGGCAACAACTGTTTGCTCTCTTCTTGATTTCAAATCCAC  
C

AGCTTTTACCAGGGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATT  
CACCACAGCATCAACAGCATGTGTGGTGAGGTATCTTTCCACACTGATACTCTATCCT  
AGGAGTCAGCATTTTTCTGAACACTTGACAGAGATTGCTGTTGCCTTCCTGAAGTGGAGA  
GACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCACACAGCTGACGCTCATT  
ATTTTTTAAATTTTAGAAGTCATTGGTGGTTAATGG

Sequence 87

CGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTGAA

Table 1

GAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACG  
GTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAAGGCCNGAAGAGGGACAGAT  
TCATCTTAGNGTTTGGGAAGTTGNGAGAACGAAGCNNTGACTCAACGTTGGTAGAAAACN  
CNNCATCCCNATACCTATAATAAATACCAGGAAATTACGCCTTGGGGTCGTNGGTTGGNTG  
ACATTGCCCTTATTAAATNCCCCAGCCTTACCTTTGTGAAAGGGCNCTTCCGGNCAGGGA  
AGAAATTNNACCTTTNTATACNCGGGGGAGGGGCATGAAGTGTTTTGTTGNGTTTGAA  
GCNCCAAAAAAATTTGGCCGCCCATTTTGGNCAACNTCCCANGCNCTNNGGGGCCAANC  
AAAGAAGCCGAA

## Sequence 88

GCCCANAAAACCGTAAAAAAGGCCGCCGTTGCTTGGCGTTTTTTCATTAGGGCTCCGCC  
CCCCTTGACCGAGCCATCACCAAAAAAATTCGACGCTCAAGGTCAAGAAGGGTTGGGCGG  
AAAACCCCCGACCAGGGAACNTATTAANAGAATACCCAAGGGCGTTTTTCCCCCCTGG  
GAAAGGCTTCCCCTCCGTGGCGCCTCTTCTTGTGTTTTCCCGAACCCCNCTGGCCGCCTT  
NACCCGGGNATTAACCTTGTTCGCCGCCCTTTTTCTTCCCCNTTNCCGGGGGGA  
AA

## Sequence 89

CGGGCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAGA  
TCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCT  
TAAGTCGATCCAACATCTGCAGNTGCTGGTTTTCCCATCTCCAGTTCACGTGTAA  
AT  
TCTCTACTTGTGATGCCAAATGTGCTTCTNCTTGTCTTTCTTCCATGCACCGTTN  
A  
CTTCCTTTAACT

## Sequence 90

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAG  
GAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTA  
TCTGTAATCTCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTT  
A  
AAAGTGCCTCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACA  
CAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTT  
G  
CTGACATTNCCAGCAGCTGNATATTTAATTCACAGTTAGGGGCTGGACAACTACAGCCN  
TTGATCAGAATGGAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCAC  
AAAATTTTCATTTATTCAGT

## Sequence 91

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAGGA  
AAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTTAA  
A  
AGTGCCTCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACA  
AGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGC  
T  
GACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTACAGCCATT  
GATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTG

## Sequence 92

CCCCANGAGGNCACCAAGCATCCCANACCCCTTNNTCCGGGNGGTGNAANCCCANGGCC  
GCCAGGCAANGGCACANCAAAANCCGGGCTGCGNCNNGAGCACNGGGCANCCCGAGAAAA  
CAAGGNCNCAACNACNGACNGGCNAAGAAGGGGCCNGCCCCNGGCCAACNNACCANACA  
GNNNAGAGCAATCTTTTTTNGGGGGNGGAGCACCGGGACCACCACCCNGACAACAAAGGA  
CCCCGGCCGGGGGN

## Sequence 93

Table 1

CCCGCGGNGGCGGANATTGGGGGNGAAACCTNANANCANGGAANCTTTGCTTTNNGNCCA  
GATTANATTGGGGGNGCTTAAANCCCCAGCGGCNNNGACAGNTAATACACCTCACGTTT  
TTNGNAACTGGGGGGGGCAGNACCN

## Sequence 94

TTTCCCGGGCAGGNACAGCTCCATGAGGTCACCAAGCATCCCATCACCCNTTNCCGGCAG  
TTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCGGGCAGCGTCTTGAGCACT  
GTGCAATTGAGTCAACAAGGTCTCAACTACTGACTGGCTAAGATGGGGCCTGCCCTTGGC  
CAACTTCACCATACAGTTTAGAGCAATCTTTAAAGTGGNCTGAGCACCTGGACTATCATC  
TTGACTACAAAGTACCT

## Sequence 95

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTATGATAACATTGCAGTCAAACATA  
TCTTGTGACAGGACAGTTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTT  
TAGGAACTAAAAGGAACGTAAGATCTGGGGTAGGGGATGAGCAGCTCCACACCCTGCTC  
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAACATGAGATGA  
GGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAATACTGTGTGTAACCTTTTGCA  
TATTTTCAGAAAAGAAACCAGTAAGGTGGGTTCAGTTGTGGGCTCATCCTGACTTAGAAA  
ATTTTAAATAATTTAGCCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATT  
TTTGCTTCTT

## Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACCCACAAAA  
TGGCGGCAGCGCCGTGCCCCAGTAATCCCCCGAGTCGCCTCTCCCCGCGTACCT

## Sequence 97

AGTCCCCGCGGTGGCGGCCGAGGTACCTTCCCTGAGGAGCCCCCTTCAGAGGGGGCGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAAGAAATCGAGAATTGGGT

## Sequence 98

GCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAGGACTTG  
GGTCAGTAGCACTTACTGATGTAGTGGTTTGATACACACTGATTACCTTCTTCTTTTT  
T  
ATTCTCTGGCATTCTCCTATATAACTAGCCACTTTTAAACAATATTTGTCGGCTCTTTT  
CTTCTGCTTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTCTTC  
T  
TACTCCTGGCCTTTCCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG  
A  
TGTCCAAACACATCTCCACGTAGGCTTCTATTTGTAGCATCAGACCCACACTTTCAA  
CT  
GTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATT  
AACAGGGAAAAAATATTAATAGGAAAAAATATAGATTTTATCTGATGGTAAT

## Sequence 99

TGCGTTGCGCTCACTTGCCCGCTTTCAGTCGGGGAAACCTNGTCGTGGCCCAGCCTGCA  
TTANATTGAAATCGGCCAAACCGCCGCCGNGGAAGAGGGCCGGTTTTGCGGTAATTGGG  
GCGCCTCTTCCGCTTTCCTTCGCTTCACTGGACTCCGCCTTGGCGCTTCGGGTNCNGTT  
TCCGGNCTTGGCCNGGCCGAAGGCCGGGTANTTCAGGCCTCCACNTCAAAAAGGGCGGG  
GTAAATNAACCGGGTTAATCCCACCANGAAATTCAGGGGGGGAATNAACCGCCAGGGAAA  
AANGAACCATTTGTTGAAGCCAAAAAAGNCCCANCCAAAAA

## Sequence 100

GAGTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
ATATGTTTTAATATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGATTTA  
TCCATTGAATTATTGTTTTTAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAAT

Table 1

TTCAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGNGTCT  
CAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCAAATTCGAGGC  
A  
GCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCATTTGCTGATTCTGNGGGGGCT  
TCCCAATGGCATGNGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCA  
TNTGTGCCACTGGGAGTTGGGGAGGCGCCTGCTGGGGTTCCTGGGT  
Sequence 101  
GGCCGAGCCCAATTCTTGATTCTTTCCATCCCAAACCTTTAAACTCTTGACCTNTGC  
A  
ATTCANGTTGTGAACATGAAACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTTCC  
C  
TCCTTGNGTACTGCTAAAACCTTGNATGGNCTNTGAAGATACTGCTCTTACNCCTCTGAA  
GGGGCTTCCTNAGGGGAAGGTACCTCGGCNCGCTCTAGAACTAGTGAATCCCCGNGC  
TGCAGGAAAT  
Sequence 102  
CGGGTCCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTNTATAAGATTAAAA  
AAAAATGAGGTGGTGTGCGAGTGGGGAGAGAAAAAGCAGGAAACAAAACCTGGTGAGAGG  
AAATGACCCCTGATGAAAGATCTTAAACACCAGGCTGAAGATTTTAGATTTCTACCTAT  
TAGAAATGAATATTCAGTGAAGTTTGATGAAGAGTCACTGAAGTGTACAAAGAAAAACA  
GATTTGAGAAAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGATTA  
GAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGACGCTGGA  
TGTGAGCAG  
Sequence 103  
ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTCTTGTTTAAACGCCTCACCCTG  
ACCACGGAACGTCTTGATAGAGCCATCTAGTAATCTTAAGTCCTACCTCATCCAACCTT  
GTTTTGACTCCTGCAGTGAGCACAGCTGCCCTCACCCTCCCCTCTCTATGCCCTCACCTT  
TGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTNAGACCACCAAANGCAAGGGTT  
N  
Sequence 104  
TGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTCAACACGGGTGGTTGCATGCAT  
TCCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGCTTCTGATTGCACAT  
GG  
GGAGAAAATGCTGAAACTAGTGGCCACAGATGTCTTTAATTCCAAAAACC  
Sequence 105  
AGCTNCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTCTAGGTATATCATGTGCCCTAATG  
TGCTCCTAATATCATAAATGTTTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTT  
T  
GGAAAGTGCATAGGCTTGTAATCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACT  
A  
GAATAATCTTGTGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAACAATACTT  
T  
CTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTGCTCTGGATTCAAGTT  
TT  
CTTCTAGTTTCAAAATTTTAAAGGGAAACCAAAAATGTTTCATGGNCCNNNCTNGCNGG  
NANGGGANTTTTCCNCNAAAAAAAAAANTCAACGGGGGGGGTTTTTNCNNNTGGGGANN  
CCCAAAAAGCCGNNTNTNGGCCANGTTTTTNNGNNNCTTTTTGTNAGGGGNTTNGGGCC  
NCCCTGCTTTACCCNTTTTTANATAACNNCCCCCCTTTTGGNNTNGGGGNGGGGNNT  
TATATATNTTNTGGGGGGGG  
Sequence 106  
GTAGTGGGCAGCGATNAGGGCTGGGGCTCTTTCCTGAGTTGTGTCAAGGTGAGAGATTGT  
GAAGAACTTGGCTTGCAAGGTTTGGGCATCAGCTGCCCATGAGGGGCCGTTTCATTGTCT



Table 1

CAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCAATTTGTATCCACACAAGTTAATTA  
TTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTNTATGTGCAA  
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTTAATTTATGGGCACAT  
T  
TTAGTTCCTTCCACACAAATTTAAGGCCTTAACTCTTNATTTTTCTACANTGGNNGG  
T  
TTTGAAGTAATATTCATACGGGCATGGGACCT

## Sequence 107

CAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGA  
AGTTGATGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCTAGT  
A  
GTGCTATGTCAATTTGGTACTAAGGTAGGTGAATTTTCCAAGTGTCTTGGAATAAG  
GA  
AACATCAAGAATAATGTAAAAGCCTCATATACAATAATGAATAATAAGAATAATGTGAA  
GGCTTCATTCAAGGTTGGGGTTTGCCAGATACATTGCAACAAAATGACAGAGCAGCCAAG  
GTATTTAGGGATAGTGGCCAAAGTATTGTAATGATGGCTTATGGGAGTGTCAAGCTGGAT  
AAAAGAGTGAAAAATGGAATAAAAACTAATGGGATTGGTTCNANTCCGAAATAGGCAG  
CNCNGCCCCAATGGCNCCCATNGCCCCGGTTTNAATTAGGGGG

## Sequence 108

NCCGGAATGGAATTCTACATCAAGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGAGTG  
CAAGGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTCGCACTTAAGCACACTTAAAGGA  
TTCTATTCTTCATTGAGTCCCCCAGAGAAATTGGCTCCTTATTTTTCTTACCTATTC  
C  
TAGACTTCCTTTTGTCTAGAGCCAGTTTTGCAAAGGGCACTTTTATCCATCTCAGTTAT  
T  
CCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAG  
NTAACTGTTAACCAAGGCACATGGTCAATGCCTTAGTATTTTTTTTTTTTAAATCTTCC  
TAAACGGTTATTTTCTAGCTGTACATTTCCAAAA

## Sequence 109

GCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTGGATTGCC  
TTTGGGTGGAGTCTTGCCCTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTT  
GAGATTAATGAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACGA  
ACGCGTGGCCCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAGAGA  
TGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGTCTGTTTTATAGGTTTAAAGACCAGGTC  
TGTGTTTTGATACTGAACCTTGCTAATAGCTGGCCACTTGAGTTGCTTCTCCAGCTCT  
T  
TGTTTGTTTTAAATAAAGAGATTGAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCC  
CCAG

## Sequence 110

GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAG  
ATTATAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTAGGCATGGAAA  
C  
AAAAATTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCATTAAACAAATTNGAT  
TGTTTCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAT  
ACATCTGGAGACACTTTATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT  
CCTGTAGCCTGCATAAACGATAAAGGGTTAAACATA

## Sequence 111

GCNCGCGGGATTGGCCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAGGGAGCGGGGT  
CCCATAGGTTACGGCCGATTCTGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTC  
TGGGCTCCCGC

## Sequence 112

Table 1

CGTGGCCGAGCGGTTTGCATCGCCGCTCGCGCAAGGCCATGAGGTTGGTCTGGGTGAAGA  
ACGCATCGATGGCGGCACGGGCCTGTTCCGGCACGTAGACCTTGCCGTACGCAGACGCT  
CCAGCAATTCGCGCGATGGCAGGTGATCAGCAGCAGCTCATCGGCTTCCTGCAAGACCC  
AGTCAGGCAAGGTCTCGCGCACTTGCACGCCGGTGATGCCGCGCACCTGGTCGTTGAGGC  
TTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT  
GAATGTNTTGCCAGCGCTTTTCGTGGCGGATTGCCGGGGGCGTTGCTGTGGGCCAGTTCG  
TTCACCAGCACCAGTTTTGGGCTTG

Sequence 113

GCGGCCAGCCAGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATGTGAGGGGG  
CGACTGCCCCCTGACATGGTGTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGG  
AAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTNCTGGACTGCAAAGTCATTT  
GTNAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCGTGGC  
T

Sequence 114

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGTGAGATTA  
CTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTATGAAAAGGAAAGAAAA  
TTTGAATGCACATCTCTGTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCT  
G  
TTAGGTTTGTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTTGA  
CAAAGAAATTGGCTGCATCCAATAGAATCCCAGGGCCGTCGTGGTGGCTCATGCCTGTA  
ATCCCAACACTTTG

Sequence 115

GGCCGGAATCGTTGCACCAGACNAGGCCCCCAGGGCCCAGCTACTCGAAGAACAAGCCAA  
TGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGAT  
CTCACTGGGGTTAGTTGGTCGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTTT  
AACTCTATCAGGGTACCT

Sequence 116

GGGGCTCGTCGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTCACGTTGCGCCCGC  
GGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGG  
TCACTTCGGAACGCGCGCGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACAT  
CCAGCAGCGGCACGCCGCCGTACGACGCGGTCTTGCCCGATCACGCGGTACAGGCGAATCG  
GCATACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAAGGTCTTCGA  
CCATCGGGCTGTAGCCGAGCAGGGTTGTTTTGGGGCGCCGGGCTTCGGCGGGGGCCGGGC  
GTTTGGTGTGCGGGGNCCCGGTGGGCCCGGCT

Sequence 117

GATGATGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCCTCAGGACTGTCTT  
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCCT  
A

AATTTGTCTTCTACCTCAGATCTAAACCATTTGATAACATTAGGGCAATATCATGGCAA

T

CGTGGCCCAGTAAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGG  
AAAATTTTTCTCATAGAAAACTGTAGGAAAAGCCATGGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAAACAAGTAGGGAGCGTNGGATTAGGAATGTCCTTGGTGCCTGAAA  
CAGGCAGACCAATCCTGAAACATCTTCTCTGGGGACCGTAAGGCATGGAAAAATTTCT  
ATTACACTTANGGAGGGCTTCTAGGGAAACAGGAAACCGACCAAAAATGGGAATGGGGCC  
TTAATTCATTTTTT

T

Sequence 118

CTCCCGCGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGATAA

Table 1

TGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATT  
CTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCT  
CTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTTCAGGACAACCAAGTAATAAGGAAC  
TGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACT  
CTGAAAGATCAGACAATAGATCAGAAGCTTTGGAGCGTTCTGACCATGAGGGACAATGAC  
CCCTCAAGATGTTAGATCAGCACAGGTGGGATCAGAAAGCCCCTAATG

Sequence 119

GGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCCTGGCCAGTGAAAGGGT  
CTAATATAAAACACACCGAGGCTGAAATAGCCCGCTGCTTGTGAGACCTTCCTCAAGCTC  
AATGACTACCTGCAGATAGAAACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGG  
CTAATGAGNTGCTGTGCCATTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTC  
ATCCTACAACGGACAAGATGAAGTGACATTAAGAGCAGAGCAGCATACAACGTAACCTT  
GCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCTTATTTTGGCAT  
GGGGA

Sequence 120

GTGGCGGCCGAGGTACCCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTTCGTG  
CTAAGATGCCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGGGCATTGTTTCACA

Sequence 121

GCTCCCCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAAGGCTTTAACA  
GTTCCACCTTTTCAGCTGCCTGGGCATTGATTGCTCACCTACCACTATGACTAGATATGA  
TTCCATGTGCTTTTGAAGTAGATTCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGT  
A

ATAGTTACTGCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCATTTCAGTAGTCA  
GCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTGTTTTACAATTCAGCTA

T

TCCCAAGCCTTACTATTCAAAGCAGAACCCCTTCTGTCTTCTTTCTGTAGTTGCTCTCTC

T

CCCTATATTCTGTTGTATTTTTTTCAAATAACTTATTACTATCTCAAGTAAATTGTTTT  
ATGTTTTGTTTTATCTACCCTCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTA

C

TTTTCCCAAATCATAAAGGTTTTGGG

Sequence 122

CCCGCGGTGGCGGCCCGAGGTACACACTGGGATCTCCTTCACTCATTTTTTAACCCTGAC  
TGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAGAATGGCTGTG  
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTACATCACTGGCTTTTA

T

TATTAAATTGGAATGTTGGCTGGAAACAATTTTAACCC

Sequence 123

GCGGTGGCGGCCGCGGCCGAGGTACGCGGGTGTGCAACTGCAAACCAGTAACCTGCTAT  
GGCCAATTGTGAAGAGATGGGAGTCTCCCCGATTGCCCAGGCCGGTCTCAAACCTCTGG  
GCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCG  
CACCCAGCCAGAAAAACGTTTCAAATATTGAAAAACCTTACTTTTTTCAATGAGCATTT

T

TGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTTCTCTTAGACTCCAAACAGTAAGGT  
CAGAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGGTGGTGGGGGGGAG  
GGACATTTTCCAGCA

Sequence 124

GCTCACCGCGGTGGCGGCCCGAGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCCG  
TGCGACAAACACCCACAAAATGGCGGCAGCGCCGTGCGCCCTAGAATCCCCCGAGTCGCC  
TCTCCCCGCGTACCT

Table 1

## Sequence 125

ATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGATTCTGGGTGTGC  
AGTAGTGATTACTGCAGAAATGCAGACATGGTCCCTGCATTCTTGAGAGGGAGACAGCAAC  
CAAATAAACAAATTACAAAAAGTATGTAACATAAACAAGTGGGAGAAGGGAGTGGGAT  
TACACAGCAGAAGTGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAATA  
AACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAGAACATGATCAT  
CTTTCAAGAACTAACCCCTTGAGATCAGAGTAGTTTGATTATAGAGGAAAAGGGTGAGTGC  
AATGGAAACGTTAAAAATAGCCCAGATCACGTAGAGCTCTTAGCCTTTTGGTAGAAAAA

## Sequence 126

GCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGA  
CAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGC.  
TTTACATCCTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGA  
ACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTG  
CTTGGCAAAGCATNCAGAGAAGCTGCTACTGCTCTTCTGGGGCCGTGTGATGGAGANGT  
TAAAAATTTGGAATCTAACTCAAGNGGNAATGNATTCCGNACCCCTNCGGNCGNTNTTANA  
ACTAGGGGGGATCCCCCGGGGCTGNAGGGAATTCGANTAAAGCTTNNTTANTCCCCGCCAC  
CNCNNGGGGGGGGNNCCCCNNCCCATTTTTTTTTTTNTTTANGGGGGGNTAATNGCCCCC  
GGGGGAAAAAANNANAAAAATTTTTTTNTNGNGGAAAAATTTTCCCCCAAANTNTNCA  
NNAAAAAAAAGGGG

## Sequence 127

GTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAAT  
AAATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAGCTCTCAACCTGTAAAGAA  
TTCCTGGGACATGACTGAGAGCAATGAGAACTCCAGTGNCAGAAGGTTAGCAGATATAGT  
GTAGAGCATACACAGATATACTATAGTTTCATAACACTGGTGGCTTAGCTGTAAATCACAA  
AATAGCACTGGAATTATCTAGTGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATC  
TTGTCTTAACTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGATT  
GAACCCAGNCCTCTTTAGACTAACATATTCTTGGCCATCACCNCCAATATTACAATAAAA  
ATCAAGACCCATGAAGGAGCATACCTTTTTCTGNAAGNAAATATTGNNTACCTCAGCTCT  
ATTGGTATTTGATGCAAAACACCCACATGCAATTTGGATCAATAAGACATGGGAAGGGGC  
CAAAATGNNACTTCATGCTTAAGGAAAAAAAAGGAGNGGGAAGGAGGNCACCAAGCNGG  
TNCNGNAATGGGTNAACTTGGGGCATTATANGGGGGNGCTTTAAAATACCATTTT

## Sequence 128

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACG  
ACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAG  
CCTGGTAGCTCGGTACCT

## Sequence 129

CGCGGTGGCGGCCCGCCGGGCAGGTACAGTCAACGGCCGAAAACCACTGAGCTTTTCCCT  
CTGCCTGGCACATATCCACTGCCCTGCCTTCCTTCAGCTGATGAACCTTTCATATGCCTC  
CTTTGGGTGTCAAGTGGAAATGTCACTTCTTTCTAGAAGCTTCTCTGGCTCTCCAGC  
CT  
GGCCCAGGGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCA  
TAGTATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAG  
GCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTG  
GGCCAGAGGTAGGTGCTTAATAAAAAATGTTTGAGGCCGGGGCGTGGTGGCTCACGGCT  
ATAATCCCAGCACT

T

## Sequence 130

GCCCAAGGGGGGGCCAACCCACATTATTTGNNTGGGGCNNNCTGCCNTTTTTNAANNA

Table 1

GAAAANCCTTNNCCCCCTTTTTATNAAATAAACCCCCCNNGGGGNGNGGGGGGGGG  
GGGNGTNATANNNGNANNNNGTCTCNTNTTTTNTCCTTTAATTCCNANAAATAAACTT  
GA  
CNTTCGCTTGNGCTTNGGNNGGTTTCGGGCTGCGGCGAAGCCGGTATTCAANCTCACTCA  
AAGGGCGGNTAATACCN

## Sequence 131

CCGCGGTGGCGGCCCGCCGGGCAGGTACCTATCTGCAGAACGGTCATTAGCAGTTTTTCC  
AAACAAGCGACTTTTAGCAAATTAACCGTTAATTTTAATGAGATTCAAAAGTTAATAGC  
C  
ATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGA  
G  
AAACTAATTTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGT  
C  
TG TAGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTATATACTT  
A  
GGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTGGAGTGAGTTATTATTTCC  
CTGGTAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACC  
TAAAGTCACCACTTCCTCATTCTGGTCCCCAATAACCCTATAAGCCTCTCCCTTGGAGGT  
GACCTCTGCCCTGTGAAGGGTTGGGCTC

## Sequence 132

CGCGGTGGCGGCCGAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGAAG  
ATGTTCTGGGCGGCCAGCACAAATCGCCGCCCTTGCCGACGATGACATTGTTGGCCTTCAGC  
CCGTCAATATCGCCCTTGATGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATG  
GCGGCGTTGCGCTTGCCGGTCCGCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCG  
CTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCCTTCTTGTCCTGGGTGACATCACCG  
CGCAGCCGCGTGCCGCCGGCAATGAAGTGGATATTGCTCAGGCGTTTTTCGTCTTGTGC  
AGGGCAAGTCCGTGGCAAGATCGGCCCGCACGCCGTGAGGAACGCCAGACCG

## Sequence 133

CGGTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGAATACTTGTTTCTGATA  
TAATAGTTACAAAGCAAATTGAGATGATTTTTAAAATGCCATGCAGTTATTTTTTCT  
G  
AATAACATAAATTTTAAACAGAGACCTGAAAAAACCCCAAAGTATTAACCTTTAAATA  
CATAAACTCAATAGAAATAATTTAACTGCCTTCTTTCAAGAGGCAATCAGAAGGCAG  
GACTATAGTTTTCTGTGTTTCTTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCA  
T  
AGAAACAATTCCATAGTTTTAATTC

## Sequence 134

TNGACTCCCGCGGTGGCGGCCGCCAAGTGTGGGATTACAGGCATGAGCCACCACGACCG  
GCCCTGGGATTCTATTGGATGCAGCAATTTCTTTGTCAAGATTGGCTCCATGCTGTT  
AT  
TTAATCAGGTGTTTCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAAAGGAG  
TGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGA  
C  
TTGATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGACAGTTGC  
T  
TCCCGCGTACCT

## Sequence 135

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTCAGGGTCT  
TCCTGGAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGAGTGAACACCCGTCTTGT  
TTAACCACCAGCAGGGGGATTCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACC  
TCTGCATTTTCCCCCAGAAAGGCGAGCATGTTACTTGTATCTTTGGGATCCGAATGACAA

Table 1

ACTCCACCAGATGTAAATCACTTTCTAAACAACATTTGACAGACTGCTCCACAAGTCA  
TCATTCTTAGCATTCTATAGCTGAACTTCTTTAAGTACCTGCC

CG

Sequence 136

AGCTNCCGCGGTGGCGGCCGAGGTACTTAAAGTATATCANGGGCAGTTTCATGCCACGG  
GAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCA  
GGAAAGGGCTCAGCAAATTTCTCTGTAACAGGATGCAGACCCCGCGTCTGCCCCG

Sequence 137

GCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCCAATGGTGGTGCTC  
TTGTCTTCATGCTTACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAG

AT

TTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTACTAT

G

CTTTAGCAATAGTGCATGGAGCGGCTGCTTA\*CTCCCAGACTTCTTGGACTACTTTGC

TT

TAATTTCCCCAACACTCCAGTGAAAAATGGGAAATCTGGGCAAGAAAGATTTTTGAACC  
ACCCCCCATTTTAAATTTTTTNACCTCAGGGGAANNAGGGACNATCCTGGNTNGGGGNCC  
CNCACCGGNGGGGGNTCCNTTTTGGGGGGAAAAAANATNTTTNTTGTGGNNCNAANAAA  
AAAAAAAAAANNGGGGGNTTTNTTTTCCCNCCNTTTTTTTNTNTANAAAAAAA

C

CCNCTTTTTTTNAAAAAATTTT

Sequence 138

TNCCGCGGTGGCGGCCGAGGTACTCGGGAGGCTGAGACAGGACAATTGCTTGAACCTAGG

AGGTAGAGGTTGCAGTAAGCCAAGATCGTGCTACTACACTCCAGCCTGGGTGACAGAGTA

AGACTCCATCTCAAAAAAAAAAAGAAAAAATTGACTTTGGAACCTCAGATTACATATCAG

TTTGATACATGCTAAACAGAGAAATGTCCTCAAATTCAGTTACTAAAAATTACTGAT

A

TCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAGGAGAATTTTTAAT

GCTATATAAGCATAACTGATACTGCTATTACAAATAAATATTCCACAAATTTGAAAAG

T

TATTAGAGGAAGAATTTTTTTTCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCAT

A

GTGAAAATTACATGGAGGAAAGAAAATAGGGAAAATAAGTCACAGAAAAAGAAAA

Sequence 139

TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCT

TTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCT

C

TTCTCTGCATTCTCTTCCCTCCTTGTTATGCTAAACTTGGATGGCCTCTGAAGATAC

T

GCTCTTCACCCCTCTGAAGGGGGCTCCTCANGGGAAGGTACC

T

Sequence 140

TCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTT

TCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC

GGTACC

T

Sequence 141

TNCCGCGGTGGCGGCCGAGCCCATTTCTTGATTTCTTTCNTCCCAAACCTTTTAAACTC

TT

GACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCCCCTTCTCTGCAT

TCTCTTTCCCCCTTGTTATGCTAAACTTGGATGGCCTCTGAAGATACTGCTCTTCA

CC

Table 1

CCTCTGAAGGGGGCTCCTCAGGGGAAGGTACCT

Sequence 142

NGGTTGCGCTCACTGCCCCGNTTTTTCCAAGTCAGGGAAAACCTTNGCNGGCCCNNTTTNG  
TTTTAANANAANNTGNGCCNNCCCCNCGGGGGGGGGGGNNGNTTTTGNATNTNTTGGGG  
CCNNTTTTTCCCTTTCCNNNAAAAAAAAAAANCNCNNGGCCCCCNNGGNNTTTTGGGG  
GGGNGGGGGGGG

Sequence 143

NNGACCTAACCTNACATTTAAATNGCGGTGGCGGCTTAACCTGGCCCCGCTTTTCCAAGTCC  
GGGAAAAACCTNTTCCNNGCCCAANCTTTGTANTAAANGAAATCCGGCCCAACCNCC  
GGGGNGAAGGGNNGGTTTTTNGCNATTATTGGGGCNCTTTTCCCGTTTNTTTGNTTNNN  
NNNANACCCCTTNGCCNCNNGGGGGATTGGGGGGGGGGGGGGGG

Sequence 144

GAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTTGGAACGTGACACGGTAT  
TAAATAACGGCATATGAAAGCTTAAAGTCATCAATACAATCACTGGGTACTTTTGATT  
ACCCAAACCAGGCATTTCTAAACTCCCACCTCTTACTTCTGCGGTCTCCTTTCTT  
T

TATCCCCCGCGTACCTGCCC

G

Sequence 145

ACTCCCCGCGGTGGCGGCCGAGGTACCGAGCTCCNNGGCTGTGGAATGAGACCGTGGAGCT  
TTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTG  
TTTACA

Sequence 146

CTCCCCGCGGTGGCGGCCGTTATGCTTAGCCNGTTTATTCTTTATTTTTTTACTGGAG  
TC

ATTGCCAGTGATGGAACGGTGTTTGCTTCTTTTCAAGATCTGCACAAAGTATAG  
CATTAGGTGGTATTTATTGTTTATATTATGAGTTCTACATTCATCTTTCCAGCACTCTGA  
AGTTATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCTTTTTAA  
T

TCATTGTTTTTGACCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTC  
CACCACCTAACCGTGAGAAATTTGGAATAAGGACTTGCACTGGTCCCCAAGTTAACAGG  
GGATATACTTCCTGCATTTTCTCTGNTCTTTCTTGCC

Sequence 147

TGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCAAGGTGGGCATTTTTTTAAAAA  
ACCCATGGAATAAATGCTACTTCTTGTTAGTGTTGTTTGAAAATAAACAAAGAAATGC  
AAACAAAACAAAACCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGC  
CTCTTAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAACCTAAGCCCA  
ATTCTTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATTTAATTAT  
GGATTACCGTAATCCAATAGTTGGCAACATTATAAAACCCTAACTTTACCTCATTGGTT  
T

GGCTATACCAAGGTCTCATGGACTCTTGACATAACCACCATTCTTTCCCTNCCAACACCC  
CGNGTACTTCAGAGTAAACCCGGGAGCCTTCATGATAACCATGAAGGCCCGGAAGCTT  
CTGGCTTCCAAGGCTTTCTNTNGGCCTNACCTTCCGGTGGTTCCTTTCT

Sequence 148

GGGTGGCGGCCGAGGTACCTNTGTGCGCGGTGGNCGAAAAAGCACCTGGGTGCGGTGCAG  
ACTGCGGAGCNGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACCT  
TAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTACTCTG  
AGCCAAGGAAGTGCTGTTCTTGCTGAGTTTNAAGGGGCTTCAGCTNGNGGGAAATCC  
CNAAGA

Sequence 149

Table 1

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGAGGGGTGAA  
 GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG  
 AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCAAGAGT  
 TTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

Sequence 150

CNCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATTGCTCTTGAAACGACAGCGATGTTT  
 CCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCG  
 GTACCTCGGCCGCTCTAGAACTAGT

Sequence 151

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGTGTTTTGTTT  
 T  
 TTTCTGTCCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTAAAG  
 AAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCCTCCTGTCTTTGAATTCTTATTC  
 CTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTACAAAGCTCTAG  
 TCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGTTTGTAAAAGCTCA  
 A  
 GGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTGGGCATTACCCAAATTCTGTCA  
 CACATTGAGCAATGAAATTCAGGGAATTGGGACAATGACCTCTTGGGCATATGAAAGAAT  
 TAAAAGAGGGCTAGGGCTTAGGGAGGGGGGATCTAATCGGGAGGGGATGTTCTGTCCNA  
 GCCCTTCCTTCCTTTCT

Sequence 152

TNCCGCGGTGGCGGCCGAGGTACNCCTAAAAAAGTACTGCAGCAGAGAAGAAAACATTGG  
 ACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGCAGGAGTTG  
 CTTACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTGATTCTCCTGAGAATGATA  
 TTCCTATGGAGATCACCACGGCAGAACCACAGGTTTCCGAGGCAGTATATGACTGTGTTA  
 TTTGTGGACAGAGTGGCCCCTCCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGCCC  
 G

Sequence 153

GCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATTTT  
 GGCTCTGTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC  
 ACATATCATCTGTCCCTTTGGATTTTACTTCCAGGACGCGTGTCTGTCCTCCAGCGTGTG  
 TT  
 GCCTTATGGTGCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAG  
 AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACA  
 C  
 TACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCT  
 A  
 TGCAAACTATTACTTTGGTTTTTAGGAGTTTGATCAGATGAAGAAGTNATGGTATCACA  
 T  
 ATATATGTAAGAAGGCCAACCCATCATTATTTTTGNAAGTGNTTTTTATTAAAAACC

Sequence 154

CNCCGCGGTGGCGTNCGGCCCCCGCCTTTTCTGCGGCTTTCAGCTGCGCGTTTCAGGTGCG  
 TCAATGAGGTGCTCGGCATCTTCGAGACCGATGGACAGGCGGATCGTGCCCTGGCTGATG  
 CCTGCGCCCCGCCAGCGCTTCGTCGCTCATGCGGAAATGCTGTGGTGCTGGCCGGGTGGAT  
 CACCAGGCTGCGGCAATCGCCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAAT  
 GAACTTCTTGCCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT

Sequence 155

CGCGGTGGCGGCCGCCCGGGCNGGTTATAAAAACGAACATGTATAAACGCTTACGCAAACC  
 CTTTTTAATGTTCTGAAGTCAGTCTTTGTAAGTGAATCGCTGGAGACTAGAAAGTATG  
 A  
 AATGGCAGTCTACCTGGGCAACCTACAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGC



Table 1

TCCCCTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA  
GGAAAGTTTGTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAG  
AACTGGAAAATTATTTGGGAAAGTTTATTAAC

Sequence 156

CTGGCGGCCCGCCGNNCTGGTNCTTNCATCTNNGCTNCCTATANGCTNTCTTTTTTACAG  
ACGGCCATGAAATGCAATCCAGCTGAAGTATTATCATCTTGTAGCATTTCAAAAGGAACC  
GTCGAAGTCATCCAAAGGATGGGAACCAATGTTCTTGTGTTCCCTTGGGTTTCTTA

AT  
GATTTCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTT

T

TCTCCTCAGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTTCTTGCCT  
TTTTTACTGGCCTTTCCTTGTCTTACTTCAGGTGGTTCTATTTTGACCTTAAAGAAGG

T

TGAAGGTTGGTNCAAGCATCACCTTGGTTCNAATAAAATTAATGGTGTTAGGTTTCTGGT  
GGCCTTNGTTTAAACGCAAATGGGGGTTTTNANGGGGGGANAAGGTTGGGGT

Sequence 157

CCGCGGTGGCGGCCGAGAAATGTCGCCAACTGCCGTCTCCCTCCTCGGCCGCTGCGAC  
AAACACCCACAAAATGGCGGCATGCGCCGTGCCCTAGAATCCCCGAGTCGCCTCTCC  
CCGCGTACCT

Sequence 158

CCCAGGGCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCA  
CGGCTTTGACCCAGGCTGGGGGTGCACAGGATCTCACTGGNGNTAGTTGGTGGATGGGA  
AAGCCCCATGGGTCCACCAGGATGAGGTGTTTAACTNTATCAGGGNACCTTGCCCCGTCT

AGAA

Sequence 159

CCCCGCGGTGGCGGCCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCCATGGAAT  
TTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGG  
AGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACA  
CCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCAT  
ATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGTGGTCCAAGTGTAGAACCAGGATCA

A

TAGTCCACAGATCGTTCTCAACATTGACTTGGCCCCACGATCCTGGATATTGCTGGGC  
TCGACACACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGC  
CAGGTAACAGGTTTGAACAAACAAGAAGGCC

Sequence 160

TGGCGGCCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAA  
CATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGA  
CCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCATATGACTT  
TGATATTCGTGTGCCTTTTTTTATTCTGTGGTCCAAGTGTAGAACCAGGATCAATAGTC

CC

ACAGATCGTTCTCAACATTGACTTGGCCCCACGATCCTGGATATTGCTGGGCTCGACAC  
ACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAA

Sequence 161

CGAGGTACCATCCTATTAATACTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGAT

G

ATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGG  
CTTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAGTATCTATA

T

ACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAG

Table 1

G

TCCCAACACAGGATATAACCCATTGGGCAGTGCATTGATGTGGGGGATGTGCAACTGANT  
ATNCCGGTCACCCGCCAATCACAAGTTTGCTGGTGTTGATGCTGGAAACGGTGGCCTCCA  
ACGCCGCTCCCCCTCCCGGAA

Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATATTTGGGCAAGT  
GATTTGACTGTTGGATATTCTTGCTGGATTCTCTCTTACGTAGAAATTTGCCTCTT

T

CCACTAGGAATGTATCACGCCAAATTTTGGCCTTCTTGTTTGTTCGAAACCTGTTACCT

G

GCTTTTCTGGGTCCAGAAGTTTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTGCA  
GCCCAGCAATATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGACCACGAATAAAAAAGGCACACGAATATCAAAGTCAT  
ATGGCATGGATTTCCCTTGACCAGTCCAACTGCCCAATATGGTAACCATGGTCGGCGG  
TGTA

Sequence 163

GGGGCCNCGCGTCCGGGTGGCTCTATGTAGTTCTAATTTGCATTTCTCTAATGACTAACG  
ATGTTAAACATATTTTTATGTACTTGTTTCATGTACTTGTTGATATGTCTATTCAATTCC  
TTTCACCATTTTTATGGAGCTGTTTTTATTATTGAGTTGTAGGATTTCTTTATATATG  
CTGCATACCAGGCCTTGTTATATACATGCTTGTCAATGTACATTGTCTTAAATCTGT

G

GCTTGCCTGTTCAATTCATTAGTGGTGTTTTGTTAAGCAGTTTTTAATTTGATGAAGT

G

TAAC TTATTCATTTTTTATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTTGCCTT  
CTCACAATCACAACATTATCCTATGTTTCTTCAAAAATTATATGGTTTTATGTATT  
TTCAATCTCAAAATATTCTCTAATTTTTTGTGATTTATTCTAAAGAAATTTGAGGGA  
TTTGCTATAATGG

Sequence 164

CCCCGCGGTGGCGGCCGCCGGGGCAGGTTATTTAATTTCTTAGTGTCTCAATTTCTCTC  
TCTATAAAACAGAGATAATAGTATTTAGCCCAGAGGGTTGTGGTGAAGTGTGAATCATTT  
CTCCATGTAAACACATAGGACAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTA  
CTTGAGAGGCTGAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCG  
AGATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTCAAAAAAAAA  
AAAAAAAAAAAAAGTACCT

Sequence 165

NCCTGGCATCAGCNATTAGNAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAA  
TTATTCCTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAG  
GTGAGGAAAGAAGATGTCTGAATCCAAGAATCCGAAGGGCCGTCAAGAAATTTTACCTGA  
AAGGCAGGTTAGGCAAGGGGAAAAGGGTCTAAAAAGATCTCCCTTAAAAACCAGGAGGGG  
GGAAGCCAAAAATCCGATGCCAAGTGCTTTCCCAAAGGGGATTGGGGACCACCACCAAGA  
GGGCCTGGCCCTTCTTCCCATCACTTTCCCTTACCATTGGGGAGGTAATTATTGTCAA  
GGCCATTAAATTTGGTTTCTTTAAGTTTTTGGCAGGTTTACCGCCTTAAAAAGGGTG

GA

CCCAAATGGATTGGGTCCACCCAAAATCNAGGCTTGCTTACTTACTTCCCTGGTAAGGGA

A

Sequence 166

GTGGCGNCCGTNCGGNCAGGTA CTGCTCAGCCTTTCAGGCCCTNTGATGAGCTCTCT  
AATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAGA  
AGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAG  
GACTTATCTGTTGTACCT

Table 1

## Sequence 167

GCNCGCCGCCCCGGGCAGGTACGCGGGAATGGGCACNNTGNAGCGCAAGTAGGTCTACAAG  
ACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACGCCCTNNGGNATC  
ATTNTCCTTATCTGCTTCCTAGTCCTGGTATGCCCTTTTCTNAACCACTCACAAACCA  
A  
AAACTTAACTAAATAACTTAAACAATCCTNAGAACGCCTCAAGGNAAANTAAGAAAAACCCG  
TCNTGAAACTTATTCTGCCCCGCCCATCATCCCTTAGNTCCCTCAATTCTGGNCCCT  
CN  
CCAANCCCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAACNGAA  
TCCCCTCCCCNTTACCCATTCAAAAAATCAAATNNGGCCACCCAAATTGGANNACCTT  
GAAACCCCTAACC GAAGTTACCCTTCGGGCCCCGCTTCTTAAGAACTAAGGNGGGAATCC  
CCCCNNGGGCCTGGNAANGGAAATTCGGATAATCAAAGCCTTAATTCCGAATANCCCCG  
GTCCGAACCTTCGGAGGGGGGGGGGGCCCCCGGGTACCCCCANGCTTTTTGGGTTTCC  
CTTTTA

A

## Sequence 168

ATNTTCAGGAGACGCTCNGTAGCCCTCGCGCTNTATCCTNCGGNACAGTTCTGCGGAAGA  
AGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGNCGAAAGNGAAGCCAGAGAGAGGT  
AGGTGTAGGAGGCCTGCAGGTACCTCGGCCGCTCTAAGAACAANGNGGATCCCCCGGGC  
TGCAAGGGAATTCCCTTANCAAAGCANTANTNAAACCCGTCGNCNNNCAGGGGGGGGG  
CCCCGNTACCCNAANCTTTTGNNNCCNTNATAGAGAAGGGNGAAAAAATNANGCCCNCC  
TNGGGGCAGNAAAAAATGGGGACAATAAGCTNTTNNNCNNGGGGGNTNAAAAANTTGT  
TAAATCCCCCNACCANNAATTTTNCNAAACAAAAAATAAAAAANCNCCGNGGANNGAN  
AAAAAANNGGNATAAAACACCCCNNGGGGNGGGTCCCNCAAAGNNGGGGGGGGGGACCN  
CCNCCNAAACAATTAATGTGGGNGGGNGGANANANAATNGCCCTNNTTTTTNTANNGNG  
ANNAAAAANNCTTGGNGCNGNCCCNACTTCTANNTAAAAAANACCCCCCNCCCN  
CCCGGGGNNAGNGNGNNGNTTNACTTTANNGGGCNANNTTTTCCNCCTTATNNAA  
AAAAAATAACNNGGCACNNGGGAATTTNNGGGGGGGGGG

## Sequence 169

TTTTGAAGCCCNCTTNCCGCGGNGGCGGCCGCCCGGGCAGGTACTTCCACTATTATTGAA  
TGTATTCTGTATTATAATTGTATTTGATTGCCTATCTCCCTCAACTGCATTATACAT  
TTTCATGGGTGAGCCAATGTCTTTTTCACTCTATTTCAGTGCCCTGCACATTTTCTGGC  
A  
CATAGTAAGCATCCCATGAGTATCTGATGAATAAATGTATTTCAAATTCAGGTTCACT  
A  
TCCTTAATCTGAAAATACAAAATCCGAAATGCCATAAAATTCAAAGCTTTTTGAGGACTG  
ACCTCGTGCTCAAAGGAAATGCTCATTGGAGCATTTTGGACTTCAGATTTTCAGATTAGG  
GATATTCAACCCGTAAGAATAGTGCCAATATTCCAAAATTCAAAAAAGTCTGAAATCCAA  
AACACTTCTGGTCCCAGGTATTTTGGATAAGGGATACTCAACCTGTACCGTAAAATACAT  
GCATACTTTCGATAGCACATGTGAAGGTATCTCTCTAAATTGACCTCATTGGTTTCGT  
T

CTCAAGCAAACCTGACCTGGGGCCACTCAACATGGCTTTTATCGNGCCTGATGTTAATGCA  
TGTCTCTTTTACAATA

## Sequence 170

AAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTA  
C  
CATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAATCCA  
GGGAGAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTGATTGAAGGTTACCC  
ATCATCCTCACCAACTTTTGGGCCATAATTCACCCAACCCCTTGGTGGAGCCTGAAAAA  
ATCTGGGCAGAATGTAGGACTTCTTTATTTGTTTAAAGGGGTAACACAGAGTGCCCTTA  
TGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAA

Table 1

ACAATGAGGAACATTTTCATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACACTAAG  
TTATCCCTTTTGTGCTAAAATGGACAGTATTGGCAAAATGATCCACAACCTCTTATTCT  
C

TGGCTCTATATTGCTTTGAAACACTT

Sequence 171

GGCGGCCCGCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAATGGCGTCGTGGC  
ATTGAGGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCG  
GAGAGAGAGGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGT  
TGGGGGGGAGCCCGAGGTTCCGGGAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTG  
TACCTCGGCCGTCGAGCGGCCGCCCGGGCAGGTACAACCTTTATACAACCTCAGGAGATTA  
AAAAAAATCTCCACAAGAAGAAGCAACTCANCAGGCCCTGGCATTAAACATTTCCCAG  
AATAACAGATATGCATTGCATTAAAGGTAATTTCAAATATTTAAGTTACACCAAGATT  
TCCCTCCAATATGTGCCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGG  
CA

TGAATTTTTTGGCAAATGTTTATGGTTTTACTTTCTTCATTAATCAAAAAANT

Sequence 172

CGGGTACANATTTAAGGTAGATGGACTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTG  
AAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGGCTCTGTTTTCATNGTGACACACTGA  
GTTAATAAAGCACTTACTGAGGGAGCCAGAGCCCAAACCTCTAAATGTGCTGTAGAAAAAG  
GGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGC  
CATCTGGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTATCATGG  
TGATTAATAAATNCAAAACAAAGCTGAATGATAAGNACCCCAAGGATGGAATACAGTCTGAG  
AAAGGCCTGGGCAAG

Sequence 173

GGGGCCGGGCCCCCGTAGGGGTACCCNCCGNGGGTTATTAAGGGGTGGNAAAAAAAAA  
AAACCACCTGGCNCANTTTCCAACCCAAANGGTNCAAANGGGGAAACCCCCCAANGGGGG  
CCCAGGCCTTGGGGAAAAGTTGTTTGGGGNAAGCCCAACCAATTGGNCTTGGTNGG  
GGAGGCCAACCCACCAATGGNCCTTGTTGNGTAAGAAATNTGGGCNAGGGNNGGTTGGTTC  
CTTGNAAGGGTATTTGGGTGGTTNCGTTAANTTTGGGGAAAAAGGAAATTTTTTTAAGG  
GTTATTTGTTAAGAAAGCCAAAGGGTTTTGGAAAAAATGGGGAATTTGGGAAGAACCTG  
GCCAATTGGGGTTGGGGCCCATTAANAATTTGGGGAAGGNAAAAAATTTTGGCCCTTG  
GGTNAAGNCCANTCCTTAAGGTTCTTAACCTTTTGGAAAANGGGGAAAAGGTTGGGGGA  
AGGNAACCCANTTAAAGGGGGNANGGGANGGACCCAAAAAACCAGGGGGGTNT  
TTTGGTTNGNCCCCCAATTAAAAAAAGGGTTAATTTTTTTTTTTTTTCCAAAAAAG  
G

GAACCCANCCCCCAAAAAGGGAAATTGGGTTGGGGGGTTNAAAAAATTTGGGGAAAAA  
AAAAAATTTTTAANTTTTTAAGGGTTTTTCCAACCTTTTTTCCCCCTTGGCCTTGGG

C

CCCAANTTGGGAAAAAANCCTTTTTTGGGCCCNTTTTTAAAAAGGNAAAAAGGGGGG  
TNGGGCCCTTGGGGGNAANTTTTTNCCCCAAAAAGGGGGTTTTTTTTGGGTTNAAAAA  
AAGGGGGGNCCAANTTTCNTTCCGGGGGTTAAAAAAGGGAACCTTGGGCTTTTTT  
TT

Sequence 174

GGCGAGCGGCCCGCCGGGCAGGTACCCTAGGGTGTTGTTTAAAGGACTTGATAACCAGCTT  
GAAGAGGTTCTACTGACCAGAAATGGAATGAAATTTAAGCATCAATAAGGGTAATAACT  
GCAAGAGACTGACATCCACTATGGTTAAATCCATGAGGTCACAATGATACTTAATTTT  
T  
CATTATTCTGAAAACCAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTTC  
CTCAATGAAATATATCNTAAGAGAACCGAATAGTTAACATAGAGACATGGCCGGGCAAGG  
TGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGCCCGAGGTGGGAAGATTGCTTGAGCC

Table 1

CAAGAGTTCTAGACCAGNCTGGACAACATGGTGAAACCCTGTGCCTACAAAAAAAAAAAA  
AACAAAAAAAAAGGTCCCC

## Sequence 175

CAGGACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAAA  
GAAGGGAATGAACACAGAGAACTTTCAGCCAGATTCCTGATNGTCACCTGAACAAGAAA  
AGTCAAACCTGGAGTGAAACCATGCAAATGCAGCGTGTGTGGGAAAGTCTTCCTCCCGTCA  
TTCATTCTGGACAGGCACATGAGAGCTTCATGCTGGACACAAACCATCTGAGTGTTGGT  
GGGGAATGGANAGAGGACNCCCCCGNAAACAGAAACCAACCATGGGGAAAAGCCTTCAT  
TTCCCCCAGTAGTNGGTGCACCGGCTCACCAGTTAACNACCAACTTNGAAAGGAGACCTT  
TATGAATTGCAAGGGTGGTGCAGGGGAAAGCCCTTTAAATTCTCCA

## Sequence 176

NCNGGNCAGGACGCGGGGGCCGNGAAGAGCTTTGCATTGTGGGAAGTCTTTCCTTTCTCG  
TTCCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGCCGTCCCAGCTCCTAAGGCAGGA  
AGATGGCGGGCCGGANAGAAGACNAAAAAGTCNCTCGGAGTCGATCAACTCTAGGCTCCAA  
CTCGNNATGAAAAGTGGAAGTNCCT

## Sequence 177

CCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTATGAATNATTNATTTTCT  
T  
TNTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTCTCTGCATCTC  
CCCACAGACAGGGGTGGTTCTAGA

## Sequence 178

GGTGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGGAATATTCA  
TCAGATTGTCTCTGTAAAAGTGAATCACAAAATTCCACCTGTGTAGGTGTGGGACTGGA  
CAGCTGAGTGACAGGGCCCTGGGAAGAACAGAAACCACTTTTCTCTTTCTCTGAAATA  
TCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACATATTGCTGAT  
T  
TTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCC  
ACAGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGTACCT

## Sequence 179

GGTACTCACAGTCACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTCTGG  
CTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGA  
TAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACA  
AGGACACACATTGTGTCAGGTACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTC  
CACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCT  
A  
TTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTTC  
G  
GCCGCTCTAGAACTAG

## Sequence 180

GGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTG  
GAAGAAATACGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGT  
GAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATG  
TGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTG  
TTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAAC  
CTGTAAAGCCAAGAAGAAGAAT

## Sequence 181

GTGGCGGCCGAGGTACTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTG  
GCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCT

Table 1

CCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATG  
CTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAA  
T

GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTT

Sequence 182

GCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCTTTCTCATGAG  
GGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTG  
GTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAACAACAACTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACG  
AAAAAACAACACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGTACCTGCCCG

Sequence 183

TCCCGCGGTGGCGGCCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAAGTAGGA  
GCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATTAGCAGTGTGAAT  
CTTGACAACTTATAAATGACTTCTCACAGATAGAAAAGAAAATGGTAGAAACCAATGGA  
AAGAACAATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTAAGTAATGCAA  
GCAAAGGAGGTCTCCATTAAAGAAGTAATGTCTACTCTTCATAATATAATAAAGGGCTA  
CAACAGACCATTGAATATCAACAGAATTTGAAAGGTGAAAATGAACAACTAAAAATAAGT  
GCTGATCTTATAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAGAATAATATTGCC  
AACTTGTAAGTGAAATGAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCCAACTT  
TATCAGGGACATGCAGAGAAAAGTTGAATTAATGAAGAAAAGCCAAAGAACTTATANA  
GAAAAAGNGATGGGAANTTCANAGGTTAATGCCAAGCTTAGAAGTCAAAAAAAAAAAAA  
AAT

Sequence 184

CCGCGGTGGCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCTTT  
CTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGA  
TCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAACAACAACT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCA  
AATCGACGAAAAAACAACACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGTACCTG  
CCCG

Sequence 185

CCGGNCGCCCGGCAGGTACGCGGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTA  
TAGCTGTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTG  
GTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAA  
TACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGGAGTCTGCATT  
AGTTGGTGTGTTGCAATATCGTTCAGCAAGAATGGGGTGGTGCAATCTTGCCAGGTTGTC  
CTGGTGACAGACGGNTGTCTGGCATTGNNAGAGGGCCACTGGGACATTCNNTANCCANTC  
AAAATTAACNAAAGTGNGAGCACNNGGTTTCCCTACCTTTTCNTTCCCATCAANTNT  
AT

ATACCANGNNGGGCGAATTTGGNNGGGCCCCNCGCCCCCTNTTCTTTGGGACTTTTAAAA  
CNGTTTGTCTNTTCCNCTTTGGGGNNGNGGCCATTTTATNTTGGGGGNNCCCTTGGGGA  
ANAANAAACCCCCCNCCCCTTTANAAAANNGNCCCCCCCCCGNNGGGGGGNAATTAAA  
AAAAAATTTTNNCCCCCCCCCCCCCGGG

Sequence 186

TCCCGCGGTGGCGGCCGAGGTACTCACACGTACCGCAAATTCACAGTCTGCGTGCACGG  
CTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTA  
A  
GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
GGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
AATTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAA

Table 1

C

CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTG

A

GACAGTCTGATCAGTTTTCGGCCGCTCTAGAACTAGGTGGATCCCCC

Sequence 187

GGCGGCCGCCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTC  
CTTTGCTTCAGTGCCCTGATCTCTGAACTAACAACAGAAAGAAGTGGCAGCATGGACT  
TATCATTACAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATCTGCAGAATCGCTA  
CACAGACTTAGTGGCCATCCAGAATAAAAATGAAATTGATTACCTCAATAAGGTCCTACC  
CTACTACAGCTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGT  
GGGAACCAAAAAGGCTCTACCAACGAGGCTGAGAACTGGGCTGATAATGAACCTAAC

Sequence 188

TTTGAANCCCACTTNCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTT

TT

TTTTGTAACACTACAGGTGTCAGATGCATCACAAAAGCAGAAGTGCCCTTTCAGTCTTCTC  
TGTGCCATTCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAACAGCC  
ATGATGTCACTCGAAGTGCTCTGTGATTGACAGAGAGGGACAGTCGTAGTCAGAGGTGGC  
TCCTCAGAGAATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTTGAGGG  
AGGGATGAAATATTCTCTGCATGAGAGAGCAGGGATGGGAAGTGATATAGGTATGTAAGG  
ATGGTCAAGTTACTCTAAATGTAGTTAGACAGGACAGCCAGAATACCCGAGGTCTTGGTT  
AGGTCCTCTGTAAACAAGCCGTAGAGGCCAGAAATGTGGTGACAGCGAGACACATTTCTT  
AACTCTACACTTGTTGAAATGAGTAGAAGGNGACATTTGGTTTGAAATCCCTCCCC

A

Sequence 189

CCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGAAGGAAAGCAGCTGCAAACTTCCCA  
TCTGCAGTGTTTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATGAAT  
TCCTCAGTGGAATATCAACAAGACTCAGCCCACCTGCACCCAGGTGATTAATAAGCTTT  
ATTGCTCACACAAAGCCTGTTTGGTGGTCTCTTCACATGGACGCGCGGACATTTGGTGC  
CCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTGTCCTCCTGCTCTTTCG  
TCCGTGAGAAAGATCCACCTACGACCTCTGGTCCTCAGACCAACCAGCCCAAGGAACATC  
TCACCAATTTTAAATCAGGAATATTCTGTGAAAAAGACTAAGATATCAAGAGAAATTAT

T

AGTGACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAAGACTCTTGC  
TTTGAGAAAGACACAAAGAAATCACATCATTCTTATTGGGATTACTGGGCTAGCCATATG  
CCAGAAAAATGAAACTGGTCCCTTCTTACACCATATACCAAAAGCNGCCCANGATGGNTT  
ACTTNAATGTNAAANCCAAAAC

Sequence 190

CGGCCGCCGGGCAGGTACCATCGCCGTCCCATTGCTCACAGGGACTGGGAAGGCGATGCC  
TGGCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTACGGCCTTGCTC  
AGGAAAGGGGAAAAGTTTGGTTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAACT  
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGTA  
CCCTGATGCTACAGACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGC  
ATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGG  
GAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAA  
GCAGTCCAGATTATATAAGCGGAAAGCCATGATGAGAGCAATGAGCATTCCCATGTGAT  
TGATAGTCAGGAACTTTCC

Sequence 191

CGCCGGGCAGGTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCCTCTGTAAAGTCTTCTGCTTAGTGTTTCAAGATTGGGGGATGCTGGGACT  
GGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTGTTGGGTTGCCTATGGA

Table 1

TCATTCCCTGCTGGGCTCACTCACCGGCTTCGTATAAGGTCCTTTTTGAGGTTTATTA  
TT  
TCCTTGTCATATACTTGATGCTCTTCATTGGCTTGCTGGGACCTGCCTTAGGTTCT  
CC  
GAGGCATAAAAGGGCCGACAGCCCCGAGTTGGGGAACTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGTTTTAGCCTGTGCCCCAAGACAAGGATT  
TTCCAGAATCTTCTACTTCAAGTAGTTACTGGTATGAAGAAGTTTCGGCA

Sequence 192

CTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTC  
T

GGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACT  
GNGGGGCCAAGGCCCTGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTTATTGCA  
GTGAAGGGCGGGTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGCGTACCT

Sequence 193

NGGCGGCCGAGGTACGCGGGGGGCTGNAGTAGGCTTCGTCTTCGNTTTTCTTTCCTTC  
GCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGC

Sequence 194

CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCAAGAGCCAGCT  
TTGAAGCCAAGTGCCCCCGCGTACCT

Sequence 195

CTTCCCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCG  
GCAAGTGCTCGACGCGTGGCCCCGAAAATGCTGCCGAAGAAAGAAATAAAAACCCTGAAAC  
ATGACGAGAGTGTTGTAAAGTGTGAAATGCCTTCTTAAAGTTTATAAAAGTAAATCAA  
ATACATTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTACCT

Sequence 196

CGGTGGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATTTTGACT  
GTTTAAACAACCTCAAGATATGTTTTGCAAAATTACAAAACATTATACAGGTGACTTAATT  
AATATCTACTCCAATTATACACAACATCATGCTGAAGATTTAGATTTATTTGAAAACA  
CTTAGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAGAAG

A

GACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGATATTTAATTAAGGG

A

TGATGAATCACAATCACCATGGTCGCCGCTGAGCGCCAACCCCTACCCCGTCGCCTCAT  
CGGATCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTG

Sequence 197

NCGAGGTACCTGCCTNACAGNGCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAG  
TGTCCTTGTGGAGCGCCTCACTAATCATGATGATGCA

Sequence 198

TTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAA  
TGTGGGAATGAACATGGATCCATCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTCCG  
TCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCT

Sequence 199

GGACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTG  
TGAAGTGGGAATGAACATGGATCCATCCATTGGATGGAGAAGAAAGGTGGACAGCCTGT  
TCGTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC

T

Sequence 200

GANGAGAAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTAC  
GCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGA  
CCTGACACAATGTGTGTCCTTGTTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGAC



Table 1

GGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTC  
AGAGGAGCGTGACTGTGAGTACCT

## Sequence 201

GCCGAGGTA CT CGGGCAAAGAGGGTGACANGTTCAAGCTCAACAAGTCAGAACTAAAGGA  
GCTGCTGACCCGGGAGCTGCCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA  
NAANCTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAAGAAGTA  
CCTGCCCGGGCGGCCCGCTCTAGA ACTAGT

## Sequence 202

TGGGGCACAGAGAGGGTTTCAGAGGATCCTTGNGAAACACTAGTTAAAAGATGACCGAGT  
GGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGTCCTGCACCATTG  
ATTCAATGGAGACTGGGCGGGAGGAAATGGAAGACTAGGGTTGGAGATGGGATGGGTGGG  
GCAAGGGATGGAAGGAAAAGGCAGACA ACTAATGCGTTCCATTTATAACAAGTAATATA  
TATCAAAGCACTTTAAAGGAGATTANAAGGACCCAATCAGGAATANATTTGGGCCAACCT  
TTANATTCTTTAGGGAAGGATTCAAAGTTCCTCCAAAACCCTAATTTTTGGATGGTT  
T  
TATTNACTAAAAAGCCAAAAGACCAAGTTNTGGGTACCCTGCCCGGGGGCCGGCCCGCC  
TCTTAAGAACCTAGGTNGGGATCCCCCGGGGGCCTGCAAGGGAATTTCCGATATTCAA  
GCCTTTATCGGNTACCCGGTCCGACCCTNCGAGGGGGGGGGGCCCGGGTACCC  
C

## Sequence 203

GCGGCCGCCCCGGGCAGGTACGCGGGGAAGTCTNTCCTTTCTCGTTCCCCGGCCATCTTAG  
CGGCTGCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGA  
AGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCA ACTCGTTATGAAAAGTGGA  
AGTACC  
T

## Sequence 204

CTCCCCGCGGTGGCGGCCGAAA ACTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACC  
TGACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTACG  
AGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTG  
ACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCACGCAGACTGTGAA

## Sequence 205

CNCCGCGGTGGCGGCCGAAA ACTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCA  
CAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTG  
ACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAG  
CAGGGGACTGTCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTACAG  
GAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAGCCGTGCACGCAGACTGTGAATTTG  
CGTACTGTGAGTACCT

## Sequence 206

TCNCCGCGGTGGCGGCCGAGGTA CT CACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTGG  
TGA ACTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAGT  
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATAT  
A  
ACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT  
C

Table 1

TGAGACAGTCTGATCAGTTTT

Sequence 207

TCCCGCGGTGGCGGCCCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTCACAGATGNGGCTTCNTCTTCTG  
CCACTTTTCTTCTTCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT  
T  
AACACTGTATCAGATCTCATTCCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTCTGTCA  
T  
TCTCATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGG  
C  
CTACCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATG  
AAGTCATGTATAAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGG  
AAGGAAAGTCAATTATATTANGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCT  
GGGTTTAATCTACCTGCTGCACCCTGAAAAATTGGTATTTACCCTT

Sequence 208

CGCGGTGGCGGCCCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCTTAA  
TGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTCACAGATGTTTCTTCTTCTGCCA  
CTTTTCTTCTTCTTCTTCTTCAACTGAATAGGGTNAGTGTAAGGCACAACAAATTAA  
C  
ACTGTATCAGATCTCATTCCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTCTGTCACTCT  
CATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCT  
A  
CCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATGAAG  
TCATGTATAAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAG  
AAAGTCAATTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTT  
TAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGAAGCTCCTATCTAT  
A  
AACTTAAGAATGTCTTATCTTACTGGACTGGTACTGGATTAAAAAGA

Sequence 209

CACCGCGGCGGCGGNCGAGGTACACGACATAGGCACATGTGCAACACAAAGAAGGTGGG  
CATGCTGCTTCTTTCTNTCTGCCCTAGNCCAGGCTCCTTTGCTTCACGNAAGATNNACA  
CTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCACT  
GCCTATAAACTGTAGTCCCAATGTNGGGATAGTCAANNGAACATGAGAATCANAACCAAT  
CTGGGCAAATGGGGNATGGCAAGTAATGGGNGAACACGCACTAACAGGNACAGTATGCCC  
AACCT

Sequence 210

GGTGGCGGCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCNNTGTGAACT  
TCTCCAAATAAGAACAAAGGACACACATTGTGTGAGGTCACGAAGATCATTAGTTTCCAT  
ATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCC  
A  
AATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTNCCTTGATCTGAG  
A  
CAAGTCTGATCAAGTTTTCGG  
C

Sequence 211

GCGGTGGCGGCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGG  
GGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAA  
CTTCTCCAAATAAGAACAAAGGACACACATTGTGTGAGGTCACGAAGATCATTAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC  
C

Table 1

CAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGA  
G

ACAAGTCTGATCAGTTTT

Sequence 212

GGNGGCGGCCGCCCGGGCAGGTACTTTTNAATTTTTTTTTTCTGNAGAGACGAGGTCT  
TTCTATGCTGTTCAAGGCTGAACCTTCATGGGTTTATTGGGGATGGCTAANGGATGACATTG  
GCTGGTGGTCCTTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTTCCTT  
GT

CTTGAGATTGCTCTTGGAATGGAAATTAGGCTTTTTTGAAGGTGTCGACCCTTTTTTGG  
TT

CATTTCTTCAGCAGTTACTTTTTATTTTTTTTAAAATGTTTTGACACACAAGTCTTNTGG  
ATAAATGAATCANTTCACCCAANCACCCCGGATTTACTTCTCCTTTGCTCTGGNTNAA  
GT

NGNTGAACACNTGTCCCCTTTTGAAGAAATCTGGGNCGACAGCTTATGTATCCCCATTCA  
CCCACAACACCCCCAAAAAAAAAAAAAAAAATTTATTGTCTTGGGGTTCCCCAGGGGAGNTT  
ACCCTTTTTAATGGAAGAAAGGTNCCATTCTTGNGGAAAGAACCCTNNGGGAATGNTTTC  
AANAAGGAAACCTTTCCCTGGGGGAAAAACAACCTTGNAAGGAAAAAATTAAAGGAAG  
GGCCCGGGGCC

Sequence 213

GCGGNGGCGGCCGTTTGAAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCT  
TTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCTCGGNG

Sequence 214

TCCCCGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTGA  
GGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGC  
AAAAAGAAACAGATGAAACCAATGTGAATAATTTATTTAACACAATATACCTAACATAT  
TTTTATTTCAATATCTAACCAGTATAAAAATTTACTTGTGTTTCCCCTCTAGAGATAGTAA  
GCTCCTTAAGTAAACAGAAGTAATACCTGATTAATTAGAATTCCCAACCCTCATCAAGTG  
TGTGCTTATATAGAAGAAACCCAGTAAATGTTTGTGATTGAAAGATATTAATACTCTT  
G

CTTGATGAGAGTGAGGAAAAAGGTATTAAGTATTGGCTTT

Sequence 215

GNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCT  
TTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCA  
TG  
GAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTTGAGCAGGTCACTGGGTCCT  
TTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCC  
CC

GGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTG  
CGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCA  
ACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTTGAG  
AGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGTG  
GAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAAGC

Sequence 216

CCGCGGNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTC  
TTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTT  
TG  
TCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTGTGAGCAGGTCACTG  
GGTCCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACT  
TC

TGCCCCGGTTGTTACAGGCTGTCTGGTACCGAGATCTCCGACCAGTCTGGGGGCGCTGG

Table 1

CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGA  
GGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTG  
TTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCA  
TGGAGTGGAGGCGAAAAATTACGA

## Sequence 217

CCCGCGGTGGCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCA  
ACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTCACAGTAAGAGTTTTAGNTG  
AA  
TGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGCAGCCATAGGTAGCCAT  
GGGACAAAGTTCTAACCCAGGGGGGGTCCAATCTTTGGCTTCCCTGGGACACACTGGAA  
GAAGAAGAATTGTCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGC  
AAAAAAAAAAAAAAAAAAAAAGTACCTGCC

## Sequence 218

CCCGCGGTGGCGGCCGAGGTACCATCCTGTTNACAGAGCCATTGCCTATTCCTAAATTG  
AATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGACCTTAATAGTGGAAACATC  
GATGTGCCTCCCAACATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTG  
AAGATAGCTCCTGCCTCCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCAT  
GCTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGGTTTGAATGGGCACCTT  
ACCAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAATGACAAGC  
ATTGGACTGCTACTTGGTGTCTCTGCTGCAAACTAGGCACCATGGATATGTCTATTA  
CT  
CGGCTTCTTAGCATTACATTCCTGCTCTCTTACCCCAACGTCCACAGAGCTG

## Sequence 219

GTTATTGGTGGTGAAGACCCGNAGCAACAGTGGGCATGTCTTCTCGCGGTGATCGGNTT  
CTCTGGCTCCTTNTTAATTTCTCCTGGGNAACGCGCGACTCCACCGCCATCTTCTCCT  
ACGGCCTGCGAGACGCTCCCCCGGTACCTCGGCCGCTCTAGAACTAAGTGGGATCCCCC  
GGGCT

## Sequence 220

GGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTG  
CTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATCTGG  
TAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGAT  
CAAGGACAAGTCCAGAACGAGATCCTCTATTCTTCTGTCTCGAAAAACCCAAACTTG  
TTGATGCAGAATACACCAAAAACCAGGCCTGGAAATCTATGAAAGATACCTTAGGAAAGC  
CAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGTATCTGTTTAATTTT  
C

GAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGTTTT  
CC

ATGTTGGTGATGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGCCATGGGTCACTATA  
TCCCAGTCAAAACAGATCTCTCCAATGTCCAAGAGCTGNTACAATTTGTAA

## Sequence 221

GCNNGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATTTCACTACTAACA  
TTCTTCAATGTGGTTCCAGCCACGCATAGTCATATAGATACTACATATNCAAAGATAAC  
T

TACTGAAGCTTGTTACAGAACCAAGCTTTCTCCTGGATAAGCTCTTCTNTCCCCTAC  
CC

CGCACTTCTTGGGNAAGGTATTACCCCAAATGCTCTTCAGNNGATTTAAATAAACAAT  
TTTTTAAAAANANGGACACTTAACACTCACAAAAAATGGGGGAAATTTTGCTCGGGCCA  
TTGGACNGCGGAAACCAAATTACCGGGTTTAACTTCCAAGNATGGCTTGTCATTTCAAAA  
ACCTGGTATTGGGGGTCCCGTTCGGAAAAAANANATAGGATATTAACCCATNTTTTTCT  
CATAAGGACCAAGCTATTCTTACNTTTTAATCAACCCAAATTTCTGGGGGGAAAGNCC

Table 1

TTCTTCTTATTTTAGGTCTTCGGGGATAGGTCTTNTANTCCCAATAAATAATTGGGGT  
 T  
 AGGTATTCAATCCATAATCCTCCCAGGACCCTGGGTTTTCCCTNGGAAGAAACAAGGGAA  
 GAGGTCNTTGCCTGGTATCCTCNAAGGTTGGAAACCAAGCTTGGCNACTTTATCTTCT  
 TAAACTTTCTTTTGGGAAGGAACCCAGGTTTCAAGATATTTTTTTTGGGGAA  
 Sequence 222  
 ATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGC  
 AGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGG  
 ATTTTATATCTTACTATGTTTCTCANCAGATGTAGGGTTTTCTGTAGATGATGATGTCC  
 A  
 TATGGCCATATCTCCAAAAGANATGAATCCGACAGCNGATACAAAGTTTTTTGGGCTGGG  
 TTTATTGCNTCATATAGNNCTTTGGCCCAAATGGNANGCTTCACCCTATATNTTGGGT  
 TT  
 ATGGNCTAAATTATTANGACCCANAGGA AAGGAGCCTCNTTAATTGGTCTCCCATCTT  
 GATTTTTCCCGTGGNAAGCACAACTGCCCTCTATGCATATCTCCACCATCCCCAAGCT  
 TTCTCATAAANTAATAAACCTACCAATGGCCTGGGTTGCNTCCGTNGGGAATTTGNNT  
 GGGGAAATTTGGGAAGCCANGTTTTTTCAAGACCTTNGGNNTTACAATTCCCTTTGGG  
 AGAAA  
 Sequence 223  
 GGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGG  
 TCAGCCCATATCTTTAATCCTGACTTTTTGTGGAGAACTCCGACATGAGAAACCT  
 GA  
 GATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA  
 GTTGGCTCANCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATC  
 AGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATTTTGGGTC  
 CCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAAA  
 CTTGCGAGTAGAGGGTTTGTAGAGTACCT  
 Sequence 224  
 CCGCCCGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCT  
 GAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGTGCAGACGTCTG  
 GTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCT  
 GGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTA  
 GCTGAGTTACTGGGCCCAGAGGCTGGGCCCCCTGGACATGTACAGACTCTCATTTTATGAT  
 GTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGAAATGAAAGTGA  
 TGAGACGATGAGAGGAGTGAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTG  
 TTATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAAAAGATT  
 T  
 GAAAGCAGGTGCTGTGGGCATCTGTATGGGGGAATCGCACTCATAGAATTATTTTCATT  
 GTAAATATTTGGTATCAGGCCCAGCAAGGGAAA  
 Sequence 225  
 CTCCCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACGG  
 CTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTA  
 A  
 GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
 GGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
 AACTTCTCAAATAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAAGTTT  
 CCATATGCTGAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAA  
 C  
 CCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCT  
 G  
 AGACAGTCTGATCAGTTTT

Table 1

## Sequence 226

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATGGATAGCCGCTTGCA  
GGAGATCCGGGAGCGGCAGAAGTTACGGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGA  
AAGTGCCGACAGCATTGGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGA  
AACAAGAGAAACTTGCAGGGCTTCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTA  
TCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAACTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATTTTCCTGAGAG  
AACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCTAATATCACTGACTGAT  
G  
AAAAT

## Sequence 227

CNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCAAAGTGATTCAGAGAACGCTGGGGCTCA  
CAGGCGCTGTAGCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTGAGAACA  
CAAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGCTC  
TGCGCATCACAGAGGGGGGCATGGTGTCCACATGGGAAATTGTTAAACAGAAATCAGA  
GGAGCCATCGGTGTCAATACCCTTCTACAACTGCATTATTAAGAAGTTCAGGGAGTCT  
TGGGCACAGACCAAGCCAGGAGATGGATAAAATGTTAAAAAATCAAGCAACTTCTGCTAC  
TTCTGAAAAGGATAATGATGATGACCAAAGTGACAAGGGTACCTCGGCCGCTCTAGAACT  
AGTG

## Sequence 228

GAGCTCCCTCCTACCCCTAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTG  
GCAAAGTTCTGCATATGCTGCGCAGTATGNGCCTTGAATAAAAATCCTGAAGATTAGAT  
GGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGGGCG  
GCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTANGNAGCTTTAAACAGTTACATAT

## Sequence 229

TGGCGGCCGAGGTACTACAGGATGATGGCTTTCTTCTCTGCGGTACAGGCANGGGCC  
ATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATT  
TGGGTGAAGACAAATCAACTGCAACGCATCATTGCGACAGGCCGTACCTGCCCGGGCGGT  
CGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTT  
TTTTTTTTTTTTTTTTTTTTGGGAACCNGNTACATTGNTCAGTTTTTACTTGNAAAAAGT  
NTTATAGAAAGTTTTATTGGAATGTTATTTTATTAAGCCNTTTTCATGGGTATTTTTT  
TTTAAAGTTTAAAAAGTTTTTACAACANGCTGGGNGGGGGGNTTNCACCTGGCATCCCA  
GCACTTTTGGAGGNCCCGGCGGGCANAAACCTGANGGCGGGGAGGTTTAAAAAANCNACC  
CTGNCCANATTGGNAAACCCNTNTTTTTTCTTAAATTCCTCAAATTAATTC  
C

## Sequence 230

GGCGGCCGCCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAGCATGG

## Sequence 231

CCACCGCGGTGGCGGNCGAGGTACGACGTTTCCATCAGCTTGTCTGTTTCATTCCCTGAT  
GTTACGAGCAATATGACCATCTTCTGTATTCTGGAAGTACAGACGCGGCTTTTATCT  
TCACCTTTCTCTATAGAGCTTGAGGACCCTCAGCCTCCCCCAGACCACATTCCTTGGATT  
ACAGCTGTACCTGCCCGGGCGGCGCTCTAGAACTAGGTGGATCCCCCGGGCTTGCAGGT  
AATNTCGGATATCAAGCCTTATNCGATACCCGTCGACCCTTCGGAGGGGGNGGGCCCCCG  
GGTACCCAGCCTTNTTGTTCCTTTTAGGTGGAGGGGGTTTAAATTTGCCGCCGNT  
TGNGCGGTAAATTCATGGGTTCATTAGGCTTGTCTTCCCTGTGGTGNAATTTNGTTA  
ATCNCGGCTCACCAANTTTCCACCACAAACCAATANCGNAGNCCCGGGGAGGCCATTA  
AAAAGGTNGTAAAAAGCCCTTGGGGGGTGGCCCTAATGAAGTGGAGCCTAACTTCACA  
ATTAAATTTGCCGTTTGGCGCTTCACTTGCCCCGCTTTTTCCAAGTCCGGGGA

Table 1

## Sequence 232

CGGTGGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTNCTTTNA  
A  
AAAAAAAAAANGATATTTTAAATATATTCAGATCCNCAAATATGAAATAAACTAAGNNGA  
GCTGGTATTCATTTACACATAATTATCTTATACCGTTNGGAATAAGAATTTGGGGCNC  
GT  
TAGCAAACCAAAGGCTCAAAAAGACGTCGNATATTTAGTTCTTGTCTCCCTCTACAAA  
NGGGAAGCACTNTTTTATCCGGCATTCTAGGGGNGTTCCTATTTTCAA

## Sequence 233

CGGTGGCGGCCGNC CGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGGACTAACTGCAACG  
GAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGT  
T  
AACCTATAAACGCCAACCAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGT  
CGGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACANGATTTGGGCACCAAAAAGAAAT  
ACTTCAGCCACTTGTAAGAACTGGGTATAAANAAGTCCATCTGTGGGACAGNAAAAAC  
CGACTGTGGNTATTATGGAANTGTTGCGCCTGGGTATTATGGAGGAATNGGGAAAGGGA  
AATGAAAAGGGCTGCCCAAGNCANTTTTTAGCCCATTTGACCCANTGGTTTTATTGGG  
CACCTTCTGGGGCCATCCGGTNGGGGGAGGCNCACCCACCAAACCGGNAAGCCGCTTA  
TTTCCTTGGAACGNCCTNAAANAACCTTGAAGGGGGAAGGGGNGGAATCCGGAGGGGG  
AAAAGGGGGGA

## Sequence 234

CGCGGAGGCGGCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTTT  
ATATATACGTAGACACACATACATGTATATATACACACACACATTTTACATATATATA  
TGAAACTGTATAATGTGTTGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAAT  
T  
AATTCCTGTTATCGGNATATGGGTATCNAAATTTGNTTTGCCCTAGTTTTTGCTTCTC  
A  
TTGCTTTCTGAATTGGGGGCAGCTTTGCCCTCAAGGGGAAATTTAGCAATGTCTGGAGA  
CATTTTTTTTTATTTTCATAATTTNGGGAGGGGACATGGGGGGAGGTTTGGTGGCTACAGG  
AACCTTAATTAAGGTTGAGGGACAGGGGTAGGTGCTTGAACGGTTNCCACANGTAACA  
CTTCGGGCNCGCTTNTAAGAAACCTAGGTGGGATTCCCCCNGGGTCTGGCNANGGAAA  
ATTCCGANTATTNCNAAGCCTTANTCGANTACCCCGGNCGACCCTTNGANNGGGGGGGGG

## Sequence 235

CGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTATAATAATTTGT  
CATTTTTGTAGAGACAAGGTCTCCCATGTTGCCCAGGCTGGTCTCAAACCTCTAGGCTCA  
ACTGATCCTCCTACCTCCACCTNTGCCTCCCAATTATCCCAATTGAGAGATGAAAATTC  
TGACAAGCTCTCAAACGTTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGG  
CCTAGNAACNTTGAATCCAGGTNCTGTTAGNAAATCTAGGGTTTGAGAAATCCCATATT  
TCTNTCCACTTCCCGCGGTACCCTGCCCCCGGGGCCGGGCCGCTTCTAGGAACNTAGGT  
GGGATCCCCCCCCGGGGCTTGCAGGGAATTCCGATATTCAAGCCTTATTCGGATAACCCGT  
CCGACCCTCGAAGGGGGGGGGGGCCCCGGGTACCCAAGCTTTTTTGTCCCTTTTAGTGG  
AGGGGGTTTAAATT

## Sequence 236

GCGGCCGNC CGGGCAGGNACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGC  
AGCCCCCTCTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTGGC  
AGCCATTGCAGCTCCAACTGCANNAGGCAAGGCCAATTTTAACTTTTCAATTTACAGTC  
GATTTTGAAGAGCTTTCTACATATCCGGTTATGTAAANTTCATATATGTATTTTTGGAA  
ATCAGTTCTTATANAACCAGCCTCCGATTCAAGTCTTTAGGCTAAAATTTTATAGGTCC  
T

Table 1

AAGGGTAGGTATGGTTAACAATTTTGAACCTTTTTGGTCCTTAAAGAAAAAGGTTGGAC  
TTGTTTCAANATANTTTCTNTCTTACCTNGTGAAAAGGAAAATCNTTACTTTTTTCCTAA  
TTAAAAAGGAATTCTTGTTACCTTCGGGCTCCGCTTCTTAGGAACTTAGGTGGGGATC  
NCCCCCGGGGCTTGNGAAGGNAAATTTTCGAATATCCAAAGGCTTTTATTCTGAATAC  
CCCGGCTCGGAACCTCGGNAGGGGGGGGGGGCCCCGGGGTACCCCCAAGCTTTTTTNGT

## Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCCT  
G  
ACTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCA  
GCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAG  
TGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTCCGGTCTCTCATGT  
CTCTCAAGCGAAAGGAAAAAGGAGTGATTTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGTTA  
GAGTACCT

## Sequence 238

CCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAGGGGTGCAAGGA  
TCCTGATTTTTAGGAGTTCAAGCGACAATGGCAGCCCAATACGGNAGTATGAGCTTCAA  
CCCCAGCACACCAGGGGCCAGTTATGGGCTGGAAGGCAAGAGCCAGAAATTCCCAATT  
GAGAATTGTGTTAGTGGGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCT  
TGGCCGGAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA  
ACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCCGTAGTTGACACACCAGGCATTTTCG  
ACACAGAGGTGCCCAATGC

## Sequence 239

CCGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAAC  
ACCCAAATACAATTAGCACTTCTCTGCTGGTATTCCCTGGGCCGTCTTAATTATCTAG  
AG  
GCCAGGAGGCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTCTGATTAATTCA  
GTTTCTTAAGTGGCAGAGCAGGTCATCAGTGTATCTAATTCACACTATTAATACACTG  
T  
CTTGCTGAAGAGTCTGACCCTGCCAGGAACCCCGTTATGGCCTAGCCCCAGNNGGGAAG  
NCAGTAAAACCTGCCAANAGCCAGGAGAAAAAAGGGGGGCCAGTCTTAAGAATGAAGGCC  
TAGGTGCTTGGCCTGGAGCTCCAGTTTTAGGGTCTGGTTACTGTTTCTGGTTTCCAAC  
TTATTAAATCCAGGGGATGGACCTGGTTACCTCAGATTTAGGTTGCCTTATGGTAGGA  
AAAATAGGAATGCCACAGGCCAAAAAACATTAATTTTGGGGGGATGGACTTGGGCAGNC  
ACCCTTTTTTTTTTCCCTTTTC  
TT

## Sequence 240

GNNGNGGGCCGGCCCGAGGTACTTTTTTTTTNTTTTTTGGTATGACTATAGATGGC  
TA  
GTNGTCTTTTTATTAGCTATCANC GTTCATTTAACAGACAAAAAATTCAAGTTCAATG  
N  
NNGGNCATTAAATACGGAAGAATTAACAATAAGTTCATTAATCAATCTTTCANCTGTT  
C  
CTATTTTATCACAATNACTTTTCTTANAATTGGAANAAGGATNCATGGGAAGGGGACAA  
GTCTTGAAAAACGCAACCGTAATTGTGTTCTTTCAAATTCATAAAGACACTTCAGG  
NNCAAAAAATAAATAACAAGGNAAGGGCCGCNTCATTACCTNTTAGTTTNGGGGNGTN  
GGAAATTGAATCATGGCCAAGTGCCTAAGNGCNTTTTTGCTGNTNAGTTAACCCNCCGTG  
CCCGGCTCNTAGGAAACCTATGNTGNGGATCCCCCGGGGCTTGCCANGNGGAAATTT  
CGAATAATCCAAANGCCTTTATCCGGAATACCCCGTCCGGACCCNCCGAAGGGGGGGGG  
GGG



Table 1

## Sequence 241

GCGGTGGCGGCCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAAGATCGGCAA  
GTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAAAAAACCCTGAAACATGAC  
GAGAGTGTGTAAAGTGTGGAAATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTAC  
ATTTTTTTTCCAAAAAAAAAAAAAAAAAAGTACCT

## Sequence 242

TGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACAT  
TTGGGGTTATATTGAAGAAGGTTACGCNACAGAGTGTGAATAGTGGAAAAACCTTCAGCA  
TATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTTATTTGGA  
G  
AAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCA  
ACCCCATGAAGCCCAAGGATGGTTCAGAGGAGCGTGAAGTGTGAGTACCT

## Sequence 243

GTACGCGGGGTGCTGGGATTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTTCTTT  
TATTAAGCTGTTCTGGAAGTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCC  
ACACACTTTTTGAAGTGGCCCGGTGAGGGGGACATAACCATTTNCTGTGCCACCCCATC  
AATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATCTTG  
GCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACTGGCTTGTTGGTTCC  
ATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGC  
CACCAGGAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAA  
TGAAGTAATAAATTTCTTCCAAAGGGAAAAACGCAAGGNAGAACATCAAACAGCTTGTGC  
TTGTAGTTCTCAATGCACGCAAGGGTCTGAAAAGTGTNCTCAGAAGACTCTNNAAGAGAC  
GAAACGAACCCTGTGCCTGTAACCTTTGAGGNGAAAAAGAACAAAAATGGCTCTTAGGNGG  
TCCCGAAAAAAN

## Sequence 244

TCCACCCACCTCGGCCCTCCAGTGTGCTGGGATTACAGGCATGAGCCACGGCACCCCGGCC  
CTGGTTTGCTTTCTGAACCATGTCAATACAGTACCACCACAGTTGCTATCTCTTGAAC  
AT  
CTTTCATTAAACATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTT  
G  
GGGCATTCTTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTT  
T  
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACGACAGGGGTGG  
GCTCCACTTTATCCAGTGCACCTCGGAAGCCGGAGGGCCCCACCAAAAAGAGCAAGGGGA  
ACCTC

## Sequence 245

CCCCGCGGTGGCGGCCCGCCGGGCAGGTACAATTGCTTGAGTGAGTTCATGGTCCGTAGG  
AGGATGACCACTAGCCACCACTTCCACTGTTTCTACAGTCCTGGNCAGCAAGTTTGGA  
GTTAAGGCTTCAAAATCCTGCAGCACACACATGCCGAAGGTATTGCCAGGATCTTGTGG  
GTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAAAGGGGTG  
TCCTGCTTTATGTTCAAGTGTTCATTCTTTATTTTCTTCTGCAGCTGTCGCA  
T

## Sequence 246

GCGGCCGTGGGGATCAGCGTAGGTGAGCTGNGGCCTTTTGCGAGGTGCTGCAGCCATAGC  
TACGTGCGTTTCGCTACCGAGGATTGAGCGTCTCCACCCATCTTCTGCGCNGNCACCATCT  
ACATAATGAATCCAGTATGAAGCAGCAACAAGAAGAAATCAAAAGAAGAATATAAAGAA  
ATAGTTCTTGTCCCAAAGGAAGGAAACTCTGAAGGATTGAATTCAGCCCTTCTTGCAT  
CTTGGGATCTCTTGGTTGGGAAACGGAAGGAAANAAATNGGAAGCCTTGTCCCGCAAGNG  
CTTTGTCCANANAAAGGGGAAAACCATCTGGGGGAATGGACCCACCTTTAAACCATCTAC  
CAAACCTTCCAAGCCCCCTTGGGGGGGTNTATTTGGTCCCAACACAAAAAATAGAAGTA

Table 1

TAAAGAAATANAGGTTANCCTTCGGGCCCCGCTTCTTANGGAACCTAGNNGGGGAATCCCC  
CCGGGGCCTTGCCAGGGGAAATTCNGGAATNTTCAAAGCCTTTATCGGAATACCCCGTC  
CGGACCCTTCGGAGGGGGGGGGGGGCCCGG

Sequence 247

GGCTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTGTT  
TGTCTGAAGAANGGGAATCTGTGCTCGCCCTGAGCACTGTATTTATCCCTTACTCAA  
GNCCCAAGGGACTTCTCCAAGTAGCCGACAACTCTGCCGGGGCCGCCGCCATCTTCCGG  
GCCCCGCTCTAGAACTAAGTTGGGGATCCCCCGGGGGCTTGCAAGGGGGAAATTTCCGAA  
TATCAAAGCTTATCAGAATAACCCGTCCGAACCTTCGGAAGGGGGGGGGGGGCGNCCGG  
GGTACCCCAAGCTTTTTGTNTCCCTTTTAAGTGAAGGGGGTTTAAATTNGCCGCCGC  
NTTGGGCGGTAAANTCANTGGGTCAATAGGCTTGTTCCTGGTNGTCGAAAAATTTG  
NNTTATTCGCTCACCAATTCNCACAACAATAACCGAAGCCCGGGGGGAGGCCA  
TAAAAAGGTTGGTAAAAAGNCNCTTGGGGGTGGCNCTAAATGGGAAGTNGAGCCTAAA  
CTTACAATTAATTTGCCGTTTGGCCGCTTCACTGGNCCCGCTTTTCCAAGT

Sequence 248

CCNCTCCCGCGGTGGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTTTTTTCTTTTT  
TTTTTTTTTTTTTTTTTNCAGAGACNAGGAATTTAATTAGGGNTGTAACAAATGGTTA  
ATTNTAGNAAGAAAAACCAATTGAATAATTTCTAACTCACTTGGCAGGGGGGNNCTCG  
CANCCNTAATGAACATCACATAATGAAGTTNCTCCTTCCANATCTATAACAGGCTCAT  
GTAATACTGATNCTCAGTAAAANGNNCATAATCCAAATNTNTAACAANGGGGCT  
TGCTATAAATCTCTTACATTTTAANACTTACTCTTAANAAATCATCTATTCTTCCCTC

Sequence 249

AGACTGTCTCAGATCAAGGAAAAAGATGGCCAGAGAGAAAGCTGGAAGAAATAAGATTGGG  
TGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTGAATAGTGGAAAAACCT  
TCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTT  
AT  
TTGGAGAAGTTCACAAAGCCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTC  
AATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCAT  
CCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAG  
AAGAATGGAGAGCCCGTGACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

Sequence 250

CGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCA  
GCCCATATCTTTAATCCGGACTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGG  
ATTCTTCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCC  
ACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAACTT  
GCGAGTAGAGGGTTTGTAGAGTACCT

Sequence 251

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCG  
TCTACCCGGGAATCCGGGGTCCCTGACCGATTCACTGGCAGCAGGG

Sequence 252

AGGTACATTTTACTACGCACCCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTG  
C  
GTGCACATGCACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCAGGTGATGCTGACACTGCTGGCTCATG  
GAACCACTGCTGTAGTATTTTCAAATTATCCTGATTCTAAGAACCACCTATGACCTGT  
G  
CTGTTTTTCTGTGGTTACTGGCTCATGTCACATAAATTCTTTAGGATTCAAACATGT  
T

Table 1

TGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACC  
A

CAGGTATATCATAACAAAAAGAACATGAGTTACCATTTTTACAAAAGTTCAGATATATT  
T

AAATTAGCCTATTTAATCTTTTTTTTGGGT  
T

Sequence 253

GGGNGGCCGGGCCCCGCCCGGNCAGGGTACTTTTTTTTTTTTTTTTTTCTACCAGTAG  
CC

TATTTTCAGATTTATTAAAAACACATAGGTAACCGAGTCANAGCTTTGGCTAGGAATGAN  
TTGGAAAAGAACTGAAGGCATAATTCCACAGGACATTACAGTTAGTGTGCTAGAAGACA  
NGAGAGGGAAGCAGGGAAAAGTGTTTTAAGAAAGCATTTCGGGGCCGGGACAAATGGGA  
AAGGGCCCCGGGCTTTCATCGAAATTCCTTGTTTTGCCTTGGATCCCAATCTTGCTTG  
GGAAAAGGGTGGGGACAAGAAGGAAGNGCCCAAGGGATGGGGAGCCACCCGATCCCAAGA  
CCAAGGAAGTANTTTTGGCGCTCCCGGGANGGGGGGCAAATTGGATCCTTTGGAATCCT  
TCAATGGGTGGCTNNGGGGTAGCTTAAGGGGGCCCGGTGGAATCCTCCTTTCTNGCATT  
TCCGGGGGCCGGGCNAAATNGCCCAAGGGGGGTACCCTTCGGGCCCGCTTCTAAGAAACC  
TAGGGNNGGGGATTCCCCCGGGGCTTGCANNGGAAATTCGGAATATCAAAAAGCCTTAA  
TCGGATACCCGGCGNACCTTCGAGGGGGGGGGGGGGCCCCCGGTACCCAAGCTTTTTGGG  
T

Sequence 254

CTCACCGCGGTGGCGGNCGAGGTACTCATGGNTGCTGNAAATCATGGCACGCCCGTTCTG  
CAGGGNTNTGCTTAGCCAGGCTCCTNTGAGATCTGGCTATTNTGNCTTGTGGATNNTCAG  
TCCCCGNGTACCTGCCCGGG

Sequence 255

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGGGGGGTGCAA  
AGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTT  
CAACCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATCCCA  
ATTGAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCAT  
CCTTGCCCGGAAAGTGTTTCACTTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGA  
GAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACACCAGGCATTTT

Sequence 256

ANCGCACACCACACNTCTGATTAATNTTTGNATTTAAANNTTTAGGTGGGGCTNCACC  
ATGTTGCCCAGACTGGTNTTGAACCTCTGAGCTTAAGCAATCCACCTGCCTCGGCCTCCC  
AAAGNGTTGGGATCACAGGCGTGAGCCACCGCATCCGGCCTCATGTTCTTTTTCATTA  
GAGAGAAATCAACTATTCAGGACCGGCCCCCACCTTTCCTCAGGAGTCATTTCTGTTCCG  
CACAGGCCTGCTGAACTGGGTGCTTTATATAGGGNANAGGGGGCCTCATTTTTNGTCCC  
CTGNCCCNCAAGCNTTANGGGGCAAAAANAAACCATNCCAANAATTTGNAAGGGNNT  
TTTTTTTTTTNAAAATNNGGNNNGGGGGGGGGCCCCCCTCNCCTGNGGTGCGGNGGNTT  
TNCNGGNGNNAAAAAAAAAAAAAAAAAAAA

Sequence 257

AGCTCCCCGCGGTGGCGGCCGAGGTACTCTGACTTGCAAGGGCCCAAGACCGGCCTTGCGA  
GCGTCTGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCTCTTGAGGTACAGTCAA  
TTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGA  
ATATTCTCTATCTTCTTACCAACGAGTAAGACCGTTTTG

Sequence 258

GGCCACGTGACCGACGCCAACATNGCGGCGCCAGTGCGTCCACCTGNTTTTCCGCAGA  
GGTTCTCATAGAATTTTCTCTTCACTCAATCATATCTACTNACACAAGCAGTCAAG  
C

Table 1

AGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATATTTACACAGTATAGTT  
TTGCCGGCTGCAGTTTCTTCAGCTCATCCGGTTCCTAAGCACATAAAGAAGCCAGACTAT  
GTGACGACAGGCATTGTACCTGCCCCGGGCGGCCG

G

Sequence 259

GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCGGGAGGCGTTAGCGAAGGAAGAGAAAAA  
CCGAAGACGAAGCCACTACAGCCCCGCGTACCT

Sequence 260

GGAGCATAAAGNTGTAAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTA  
ATTGCGTTGCGCTCACTTGNACCGCTTTCCAGTCGGGGNAAACCCTGTCCGTGCCCAGNC  
TGGNATTAATGGAATCNGGCTCAAACGNCGCCGGGGAGAGGAGGGCCGGGTTTTGCCG  
GTATTGNGGGCGGCTTCTTTCCGCCTTTTCTTCGGCTTCAACTGAACTCCGCTTGC

GC

TTCGGGGTNCGGTTTTNCGGGCTTGNCGGGGCGNAGGCCGGGTAATNCAGCCTTCAACTTC  
AAAAGGGCNGGGGTAAANTAACNNGGTTTATTCCCCACCAGGAAATTCAAGGGGGGAATA  
NACCGCCANGGGGAAAANGAAACCATGNTGGAGCCAAAAAAGG

Sequence 261

TGTGTTGAAAAATTGTTATCNNNCTTCACAAATTCACACAACATACCGANGCCCGGNNA  
GTCATAAAGTGTAAGCCCTGGGGTGCTTAATGTAGTGAGCTAACCTCACATTAATTG  
CGTTGNGCTCACATGCCCGCTTTTCCAAGTTCCGG

Sequence 262

GGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCACCTGGGACGACATGGAAAAG  
ATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTG  
CTCACGGAGGCACCCCTGAACCCNAAGGCCAACCAGGAGAAAATGACTTCAAATTATTGT  
TTGAGACTTTTCAAATGTCCCANGCCCATGTATGTGGCTTATCCAGGCCGGTCCGCTGTC  
TTCTCTTATGCCTCTGGNACGCACATCCTGGCATCTGAGCCTGGACTCTTGGAGATNGGG  
TGTTCACTCCACAAATTGTTCCCCCATTCTTATNGAGGGGGGCTATTGCNCTTGGCCCCC  
ATGNCCNATCATTGNCNTTCTNNGGATTCTGGCCTGGCCCCGANGAATCTTCACTTGAAC  
CNCTTCAATTGGAANNATCCCNTGGACCTGGAANGCGTGGGGCCTAATTTCCCTTTCCGGT  
TTACCTAACCTGGCTTGNAAGCCGNTGGAGGAATTGGTTCNCGGGGGACCAATTCAAAG  
GGAAGAAAANCTGG

Sequence 263

CTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTT  
C

TTACTAGAAGCTAGGCNGAAAGAGTTGTTACTCANATTTCTTGAACCTTGAGACGTCAAAG  
GTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCC

Sequence 264

CGTGCGGATCTTCTTTTGNNGCTTCCTTCANGGGGTCAANAAAACCCTTCTNNGCC  
TTAAAGCCTTCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCTTCCNCCTTCGANNTC  
GGCGCCATCTTGNGAAAAGCCCCGCGNACCT

Sequence 265

AGCNNCCCGCGGTGGCGNTNGCCNNGGGCANCCCGCGGGGTGGAAACCTCTTCAGCATTN  
GCTTNNNNTCAGGGGGCTAAAAAACCCANCAACCGGGACCCCAGCTTTTCAGAACTGCAG  
GGNAACAGCCATCATGAGNGAGGGCACCAAGAATTCCCTGGAGAAAATCCTTCCACAGCT  
GAAATGCCATTTACCNNGAACTTATTCAAGGAAGACAGNNGGCTNNTNNGGANCGNNGGG  
ATAGAGNGCGCAACCAGGGNGAAANNTTAAACACNGAGNNCAAAGNNGNCGNNGGNCCCN  
CGGCCGCTCTAGAACCAGGGGACCCCCGGGCCCGCAGGGAANNCCGANANCAAAGCCNAA  
NCGAAACCCGGCNACCNCGAGGGGGGGGGCCCCGACCCACGNNNNNNGNCCCCCNAA  
GGGNGGGGNAAANGNGCCGCCNNGGCGGAAANCAAGGGGCAAAGGCNNGNCCCNNGGGGG  
NAAANGGGNANNCCGNACCAANNCCNCACAACAACCAAGCCCGGGAGGCANAAAAGGG

Table 1

GAAAAGCCCN

Sequence 266

AGGTACTTTTCTAGGTATTGCTGGGCAAGATCCTTGTTGGAGTCCTCCTCTTTTGCTG  
CC  
CCACTCAGAGGATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGC  
ATCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTGCCC  
GG  
GCGGNCGNTCGAGCCGCCGGGCAGGTACTACCTGNACCAACTTTTTTCATTTGGGCATCAC  
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGNTTATATGAAAGNCAGAAGTTTAGC  
GAAAATTCGGCCTAAACAGNAATAAATGAAAATGGANTGGAAATCAAAGNNCTTAAATAG  
AACANGAAGGCNNGGGCACCNGGNTCAGCGCTNGNANNCCCAGCACT  
T

Sequence 267

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACCTCATTTCTACCAATCATT  
TTAAGAGAATTTGGTTGTATTTCAAAGAACAAAACAACACAATTTCTGTCTGCTGTTT  
A  
TTTTAGCGGTGGTTCGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCA  
AGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTC  
GTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATG  
TA  
AAGCAGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAAT  
TGTCCGGATTCCGGCTCAGCATCTTACCTTCATCTCGGTTGCTCTTC

Sequence 268

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTATATGAAAGTCCTCACTTTTCTCAGA  
AGCAGAAAAGGAGTAAGTAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACA  
ACGTCTACTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGACTG  
C  
AAGTGGAAGACCTTCTGGCACTGCGACCACTAAAACCTGTAACCTCCAATAATGAAGAACTT  
CACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCCATGGTCTTTTCTGAACCCA  
GAAGGTGTCAATGACAAAATATAATACTAGAAATGATAACTGTGATGGCAGGCATCAACAG  
ACCTTTTCTCAGAAATGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCTT  
GACAGATATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCT  
C  
TGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGATTTAATTTTT

Sequence 269

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACTGAAAGACCA  
GCAGAGGCATAAGGTTTCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTT  
GAACCAACCTCGAGCGGCCGCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGTTTAG  
GCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCC  
AGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCAAGTAG  
CAACCAGGTCCTGAGAAAGCCCTCTCTTGGAAGAATAACAGCCAGGAGGAAAAGCTTT  
TCATTCTGCAAAGCTGGGGCAGAAAGTTCTTNTTTGAATCCCGCGTACCTCGGCCCGNTC  
TAGAACTANTGGATTCCCCCGGGCTGGAGGAATTC

Sequence 270

GTCTTCGNTTTTCTCTTCTTTTCCAGGGCCTCCAANCCCTCGTCAGCCTCCCGC

Sequence 271

GGGAGGCGNNAGCGAAGGAAGAGANTNTTCGANGACGAAGAAAACCCAGCGCCCCCCCACG  
NACCT

Sequence 272

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCCACAGTTAGCTGCAGCAAAACGCAGGCTGC

Table 1

CTCAGGGAAAGGAGCCTGGGTTGATTAACCTGTGTGTCAATGTCCCACCCGTCCCAGGTA  
ACATTTTGCCCCCTGAGGTCCGGGGTAATTTAATGGCTGCTGGACAAAACCTCCAAAGTT  
CTTGAAAGATCAGAAATGATAGCTACCTGGAGTCCAGCTGTACGGCACTTGCGCTAAAGC  
CGCTTCCCTCAAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGCAAGAAGATCC  
ATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACC  
CATATTGCAAAGACCATGCGCCGGAACACCATCTTCGCCAGGCCAGGAATCACAAGCTC  
CGGGTGGATAAGGCAGCTGCTGCANCANCGGCACTACAAGCCCAATCAATGAGAAGGCCG  
GCGGTTGCAGGCAAGAAGCCCTGTGGTAGGTAANAAGGG

Sequence 273

TNTTAGGGNCAAACACGGCCCCAGCCCCGCGNCCCAGNCNGNGCGAANGATTTTTTCAGGG  
NGACAAAACCCAGGNCACCCACCTGCCCG

Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCTCAGTTC  
TAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTTCCACCAAGGCAGAATTCAG  
CCCTCATCTGCCAAACTACCACCAAAGACTTACAAACGGGAGCTTTCGCACCCCCCATT  
GTACGCGGGGGAGGAGCCTGAGGAAGAGGGCGGCGACGGTGGTGGTGAAGGAGCGGAGCC  
CGGTGACAGGATGTTGGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCAAAAACCTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCAC  
AGGAAACCTTTGCA

Sequence 275

CAGCGAGCACGCGTNTTCCGCAACCCGAAACCNCCTTACAGGAGGTTTAANACNCANCCC  
AACGGGGAGAGNNGGGGAAACATGANGACAGANNNGGGGGAANGAAATGGNACCTCGG  
CCGCTCTAGAACTA

Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCTTCTCACCGCACCGGCCCTCGGTGATT  
ACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCCANCCGCGTCGATCTTTATG  
TTATACCGTCACTCCCAGTGCCCTAATGGAAGTATCCCTCCACTACTCCCCCTGGTTCTA  
CCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATTCCCAAATTCTAGGCCCGGCCCA  
TCAAGCCCTCCCCGCGTACCTGCCCG

Sequence 277

GACTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCAGAAA  
GTGGAGGCGCTTGCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACCTCANCT  
GTTGNTGCTTCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGTTGTTGCGGCAT  
TG  
CCTGCTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCCACTGCTTGAA  
GCCACCGACAACGATGACATCTATGGG

Sequence 278

TTCGCCCCGGCAGGTACTTTTCATCCATAAAGGCCTGCAGCTGTTTCACTGATCCTTGCA  
TTCATCCATCACCAACTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTCT  
G  
GTAGTCAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATAGGTTT  
CACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATCTCTTTAGCCT  
C  
CTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACGTTCTAAAGAAAACCTTTGTTAT  
GTATTCCTTCATCTCAGCCACAGATGCTTCAAAGAAAAATCTGATGCTTTTCCATTG  
A  
ATCTTCAAACATTTTTGNAGAGTTCCATCAGTTTCCAGGCCGTCTGCAAAATGTTTCA  
A  
TTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAACTTTCAAGACTGAAGCCCTTAGTGGC

Table 1

CCTTANGAAAGGGT

Sequence 279

CACTGTTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATT  
CTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTCTGACACCT  
CACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCACTTGAAAGACTACAG

A

GGAATCTTGCNCTGCATAGTTCAAACATAAAAGAGAAGAGTTAATTACCTGAAAAGCAAG  
AGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATT  
TTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGATG

G

AGACATGCTTATTTTATTTAACTCCCCAAAATTAAAAANNAAAAAAAAAAAAAAAAAAAA  
AGTCCCTGCCCGGGCGGCCGCTCGAGATAAC

Sequence 280

CCGCGGTGGCGGCCGGAGTNATGCCATCTGCAGGTTTTGTGATCTGCAATGATTCTTCCC  
TTCGAGGTCAGCCATTATCTTTAATCCTGACTTTTTGTGGAGAACTCCGACATGA

GA

AACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAGGAGTGATAC  
TTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTAC  
ACAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCT

Sequence 281

GGGGGGAGACATGTGGAGGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCCTGGGA  
AGGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAAACAG  
ACTAGGGTGAAATCCATACAATGGGAATGGTAGCAGACAATAAAAAGAAAATGAACTATT  
GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCCTGAATGAAAGAAGTCAGAG  
ATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAGCTGC  
AAGCCGTTTTCCAGACAAGCNGNGATGTGGGGATGCCACAAGAATTCAGGACTGGAGGGG

Sequence 282

CGCGGTGGCGGCCGAGGTACTTNTNACTGCCAGAGGCTGTGACGNTGTGTATTCNGAGAG  
CAGCCTTNCCTGCANTGATNCCATCCCGCAGGAATCNAANTTCTCCCTNGATACNGNGCA  
CTCTGCCTGTCTTCCACNTTCCCTTTCNCATTTGCANTACACNGTTCACCACT

GC

CCTTAAGGCTTGAAACTCACNCCACCTTCAAGCNTCCCATGGTTCTCTGCCACTCATGG  
GTCNNGGNAACCAGGGTGGACAAGGGGGGCCAGAATCAAAGNCGTTCTTTCACCCCCACCC  
ATGGGCCAAGGGGAATGGGGGCCCCAGNNNGGGTTCCCCAAAGGCANCAAGNAAAANNA  
ACTTGGANACTTGGAAGTGGANGGGCCATTGGNAGGCAAGNCCTNGAAAANGCCANAAAA  
AGGGGAGGGGNCNGNAACCACCNAAAAAAGGTTTGGANGGCCAGNAAAAGGGANANNGG  
GCCCCAGGGGAAAAAACCTTTTGGGCCCATTTTTTTTCCAATTTCCAATTGGGCCT

TG

GGCCANTAATTTCAAAGGGGAAGGAATTANCCTTGGGNAAAGGGGNTNGGGGGGGG

Sequence 283

TGGCNGCCGAGGTACAGNATTGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATT  
CTTGTGCTGTTGGATATCACCCCATGATGGGTGTCTTGACGGTGTCTAATGGAAGT  
CAAGACTGTGTCCTTCCCTCCTGAAAAGATGTCATCGCCNACCAGATATAAGAAAGACG  
GTTTGCCCTTTTCAAAAAGACCCTGGGAATGGTGGGCCCATTTCTTGGTNGGGNCTTCC  
CAATGGCNCAAAGNAAAGGGGAAANGGGCNATTGTGAAGAAGGAANANAGTATTTTACC  
TNGAAAAGGCCATAAATGGTGNANANAAATCTTCCANAAATCCNCAAGNNGGTGG  
CANGCCCTNTAGTANTAAANTANCGNCCCAAAGGAAAGGNTCANGTTTAAAGGGGT  
TATTTTGTGTTNGGGGTAAATCNCAAGCCCCAAATACCCCAAACCTTGNCCCCTGGAA

Table 1

CTTGGCTTTTCNCAAAGGTTCNAGGCTTCCNATTCTCAATCCCCCCCCAAAAGGGGAGG  
AAACCNNTTCC  
Sequence 284  
GTGGCGGCCCGCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGT  
GAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGACGCTCTTTAAGAGTCT  
GCACTGGAGGAACTCCTGCCATTACCAGCCTNCCCTTTCTTTGCCAGAAAGGGGAGGGGG  
GGAAAAACAATNACAATTTATTTCCATTGGCCCAAGTNCTTGTNTNGCCAATTGNCAAG  
TGCTTTTTTTTGGGCCNTTNTCTTACCCCTTTGCCAAACCAAGAAAACTNAAATNTTG  
N  
CNACNCAAANCTTCCCTTTAGTTAGNCGCGGAATNTCNCCGCCCCCACAAGTAAGAAAGT  
TCNCNTGGNNAAGNCCCACCAAGANCCTTTTTTTTTGGCTTTTTTGCCAATTTGGTGA  
AG  
GGAAG  
Sequence 285  
TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATGTTTTCAAGGG  
TATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACGTATCTTGGAGTTATGGGTGC  
AGTTCTACTACAAAACACTAGTTTTTTTCTTCACCTTACTTAATGAGATGGCCCATAAAT  
TAATCAGGAGATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTCTCTCTCTGC  
CATCTGATAATAGTGTTATCCAAGATAAATCTGTGGGATTATAAACATTTAGTAGAA  
G  
GCCTGCATGATGTCATGACGGGAAGATCCTGAAACAGGAACTTATAAAGACTGTATGTT  
GGATGGTCTCATCTTGAGGGAACCCAAAAGTAACCAGGAAGATGAATGAAACCACCCAC  
Sequence 286  
GCGGCCGAGTACCCGATAGAACATGGCATCATCACCACCTGGGACGACATGGAAAAGATC  
TGGCACCACTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCACCCCTGCTC  
ACGGAGGCACCCCTGAACCCCAANGGCCCAACCCGGGANGAAAATGAACTTCAAATTA  
TTGTTTTTGGAGAACTTTCAAATTGGTCCCCAGGCCCATGGTATTGTGGGCCTTATC  
CC  
AAGGCCGGGTNGCCTGGTCTTCTCTTATTGCCCTTNCTGGGGACCGCCACAAACNTGGGG  
CAATTNGNTGGCCNTGGGAACCTTCTTGGGAAAGAATTNNGGTNNGTCCAACCCCCAACAA  
AATGGNTCCCCCAATTCTTATTGGAAGGGGGGCTTAATTGGCCCCCTTTTGGCCCCC  
CAAATGGCCCCANTCAATTGNCCGTTTNTTGGGGAATNCCTTGGGCCTTGGGGCCCCGGG  
AAGNAATTCTTCAACCTTGGAACTTAACCCCTTCAATNGGAAAAGAATTCCCTTGGACCT  
TGGAAGGCCGGTGGGGCCTAATTTCCCTTTTCGNTTTAACNTAACCTTGGCTTGGNAA  
GCCGGTTGGAANGNAAATTTGGTNCCCGGGGGAACCATTTCAAAGGGGGAGGAAAAAANC  
TNGGNGGTTTTAATTGTTAAAGCCCTTCTTGGGNACTTTTTTGAAAAAA  
Sequence 287  
CTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCNAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCGNGACC  
TGACACANTGTGTGTCCTTGNTCTTATTTGGAGAAGTTCACANAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTCGTATCGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCA  
GAGGAGGTGTGTNTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTT  
GACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAAGCCGTGCACGCAGACTGTGAA  
TTTTGCGTGACTGTTGAGTACCTCCGGCCGCTCTAGAACTANTTGGATCCCCCG  
Sequence 288  
GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATG  
ATGCA  
Sequence 289



Table 1

GGACAGACTGGCTCATNGAAGACATTNACTNTGATGGGACCATTNAANCNGATAATTTT  
TCTCATAACCTGAGAGGAGTNATCCCACGAAGTTTNGAATNTTGTTCCTTAATTGA  
T

CGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTTTGTAAGTGTTCCCTTTATTGAA  
ATCTATAACGAGCAGATATATGATCTACTGGACTCTGCATCGGCTGGA

## Sequence 290

TGGCGGCCGCCCCGGGCAGGTACGCGGGGCCCCGTAGGAGCCTCTCTCCCTACTGCTGCTAC  
ACAAAGACCCTGAGACTGACCTGCAGGAACCTNAAACCATGAAGAGCCTGATCCTTCTTGC  
CNTCCTGGCCGCTTANCGGAAGTAACCTTGTGTTATGAAATCACATGAAAAGCCATTGG  
GAAATCTTTATGGAACTTAATCCNCTTTTNAATTAANCCAGGGNAAGNNAATATGT

N

AAAAATTCCNCTTTTTTATTANNTCCCCCTCTNCAATCCAAGNANGNATGGGGGAAGCNA  
GCNTAAACCNCCTNCNNATNANANAGNTNGGGTTTCTAAATAAGNAANCCTTTCTTTCTA  
AANANGNNCNTNGNGTTCCACCGATATCTTTATATATTNNGGGATTNANCCCCCCTN  
TGNNAGNTTATNTACTTTNACNNANGCATTTTTTTTTNNGTGNAAAAAACCCCGC

T

AACCNACCCCAANTNGGGGTTTTTATATTGGGGGNANTNACCAAAAATGGCCTNGGCCCT  
TNTATNANAAATCNGCGCTTTNNCNTTTATAACNAGGGAAAAAAGCCCCCCCCCANNGG  
GGGNANNNCCNAAATATNTNTAANATNNTTGGNNGGGGGAAAAA

## Sequence 291

GAGCCCGGGTGGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGGGGAGTTA  
AATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTANCA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTAAATGATTTCCTTGGGTCAAAAT

T

TACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTCTCTTTTAGTTTGAAC  
TATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACACTT  
TATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGGTTGGCTCACGGGTC  
ATAGNGTAGTAAGAAGAATTTACCGAAGACAGTATTNGGTTCCGAAAAAGAAAGTTTTA

T

## Sequence 292

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTNGCTTGTTTTATCTTTT  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGAATCCCACT  
CT

GACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCGACCCTGACTCTCTNCCGCTC  
TTTTCTCAGGTGCAANGTTTNCCTTAAGATCACGCTGACGTGCGACCCACGGCTGCCGT  
ACCTGCCCCG

## Sequence 293

GTGGCGGCCGCCCCGGGCGGACGCGGGGACATTCGAGTGGGGATTAAGAGAAGGAAGGCT  
GCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGCAGGCAATAGAATACTTTG  
CTTTTGGAGGAAAAGGAGGAATTCATTTTANAGCAAGACACAAAGAAAAGCAGTTTTTTT  
CANGTGCTGACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAN  
GTTCTTCAAGGCANAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTG  
AATACCTCTGAGAATAGAGATTGATTATTCNACCAGGATACCTAATCAAGAACTCCAGA  
AATCAGGAGACGGAGACATTTTGGTCANGNTTTCACATTGGACCAAATACA

## Sequence 294

GCGGTGGCGGCCGCCCCGGGCGAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGTTN  
TGTAAGTGAACCTTGTTCAGNNCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAG  
ATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTCATNNTCCCTCTTTCCCC

AC

AGCAGNGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTNATACTT

Table 1

CTTTCCTTACACTCATTTTCCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGG  
TATAGCTGCCTTGCTTTCATGAAAACACACTTTCCTATTGTGATTTATCAGAGGCCTTT  
C

CATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATA

Sequence 295

CNCGCGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCCGGAATCC  
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCC  
TGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCA  
ATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTA  
GAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGACCC

Sequence 296

CCGCGGGGCAGGTACGCGGGGCTCCCTTGAGTAGACTATGCAAAGAAAAAGTGGGCCA  
CCATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAGGGAATAAACATTTAAAGAC  
TCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGGCCGAGCAGCAGCTTACAATG  
AAAAATCAGAGACTGGTGCTCTTGAGAAAACTATAGTTGGCAAANTCCCATTAACCACA  
ATGACTTCAAAATTTTAAAAA

Sequence 297

GCGGCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGGGCGGGAATTG  
AAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTGTAAATACCAAGCCTTGAAAGGGAC  
CATGGTGCGGCCTGTGAGACATAAGAAAGCCAGTCAAATTCTCACAGTTTGACCACTCTG  
ACAGTGATGATGATTTTGTCTGCAACTTGACCTCGGCCGTTCTAGAACTTANTG  
GA  
TCCCCCGGGCTNGNAGGGAATTTCCANATTTTNAANCCTTTTTNCGGANCCCCNCNCCN  
CCCCTNAANGGGGGGGGGGNCNCNNGCCCCNCNNTTTTTNNNTGGCCCCNTTTTTGNNG  
GGGGGGNGAATTTANCNNCCCCNCNGNCGGGGNAAAANAAATAGGGGGGNAAAANTNTTT  
TTNTTNNNGGGGGNAAAANAAATTTTTNTCTCCCCCCCCAAAAATAAAAAACNCGNCCC  
NCTTCTNTCCCCGNTGGNNGNAAANNANTATNGNGGTCCCCCNCNNGGGGGGGGGGAN  
ANTTTTTTTTTTNNNNAATTTTTTTT

Sequence 298

GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACTAGATGAGCT  
GCTATAGTAGTCAATCCTGTTAGACTTGGACCATTGTTTGTCTGAAGAACTGGAATCT  
GT  
CGCTCGCCCTGAGCACTGTATTTATTTCCCCTTACTCANTCCCCAGGGGACTTCTTCAA  
GTAAGCCGACANACTTCTTGCGNGGCCCGCNCGCNCANTCTTTCCCGGNCCGGCTTCTT  
AGTAAACTTAGGTTGGGAATCNCNCNCGTGGGCCTGGCNAGGGGAAATTTTCGGAATTA  
TTCAAAAGGCCTTTATTGNGAATAACCCGGTTCNNACCCCTTTNCNAAGNNGGGGGGGGG  
CACCCCGNGTTAACCCCAAGGACNTNTNTTTGGTGTNCCCCCTTTTAAGTTGGAAGGG  
GGGTTTTAAAAATATTGGCCGACCGNCCTTTGGGTCCGNTTANAAATTCCAATTGGGGG  
GNTCAATTAAGGNCCTTGNTTTATCCCCTTNGTNGTTGGAAAAATTTNGTTNTAAAT  
T

CNCCGNCNTTTCAACNAAAATTTTCCNANNCAACCAAAACCNAATTAACCNAGNCC  
CCCGNNGGGAAGNCCAATTAATAAAAANNTTGGTTAAAAAANGGCCCTTGNGGGG

Sequence 299

TGGCGGCCGAGGTACTTCTGTCTTCCAGTTTTCCACTTCAAACCTCTATCTTCTCAA  
AT  
TGTTTATCCTACCACTCCCAATTAATCTTCCATTTTCGTCTGCGTTTAGTAAATGCG  
T  
TAACTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGGATTTTCAAAGGGTCTTT  
TT  
AATTCACCCTTCGGGGTTTTAAATCCTCTTTTTTAAAAAGAATCCGTCCTTCAAAAAT

Table 1

TATNTTTAAATTACCCCTTACCAACCTTTTTAAACCTAAAAACCTTTAAAGGCTTGTTT  
TAAAGGTCCACCCTTTCATTTTTTAAATCTAAAAAAGGCCATTTGGCCCCTTTCTAATT  
T  
GGGNTAATTNAAATTCCGGGGGCCTCTTGTTAGGTACCCTNTTCTCTTCAAATTTTTAT  
C  
CTTTTTTTAAAAATTACCATTTTTTTTTTACCTTCCCATTGAAAGGAAAGGCCTTTNCAT  
TCTTTCAAACCCCTTCCCGGTTCAATTGGTTTTTTAAGGAAAAACCCCTTTTTTNAT  
TTCTTTTTTCCCCTTTTCCCCTTCCAATGGCCCTTAANCTTTCTTTTCTTNAAAGGT  
GCCTTTCCAATTAATTTTTTTTCTTCTTTTAAAAAAAATTCTTTTA

Sequence 300

CGCGGTGGCGGCCGAGGTACTTAAGGTTGACTGGTAATCAGGGTAACTTCTGATACTTAT  
CACACAAGATGGTGCCTCAGCATTTAAATAATGGAGGTAGGGGAGGGCGTGGTGGTAAC  
ATACTTTTAAACCAGCGATTGCACAGCAAACCACAATGCAAGGTATTTCTGACTCCCAAG  
ATTGCCCGTTTCTTAAAGAGCAATTCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGC  
TAACTGCTTTCAGTAAATTCTTGATGGCCTTCGATTCTGGATTCTGACATCTCTTCTCA  
C

CCTTCTTTTTTCAATTGTAGCAATGATCTCAACACGTG

GA

Sequence 301

TCCCCGCGGTGGCGGCCGAGTGATGCCTCTGCAGTTTTGTGATCTGCAATGATTCTTCC  
CTTCGAGGTCACGCCCATTTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACAT

GA

GAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTTCATCNGATTTA  
CCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTG  
ATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTAT  
CTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCTCGGCCCGCTCTAGAACTA  
GGTGGATCCC

Sequence 302

TTGGAGCACCCCGCGGNGGCGTTTTTGGGACGCNCGGAACNGCAATGCTTCAGGACCCACA  
GGAGCGACTCTTTAAAGGGACCACAAAANCCGCACAGAGCTGCAAACAATAACATGAT  
ATAATATTAGAATGTGTGNACCTGCCCCG

Sequence 303

GNGGCGTTTTAGGGCGNAACGGCCCCCATCATGGCGGACCCTAGAGAAAGGCTCTTAGG  
GGGACCNAACCCGNNGCCCGAACACAAGGAGANCGACGGCCGCTCTTNAACCAGNGGAG

C

Sequence 304

TCGCCCCGAGCTTTCTCTTGTCCATCTTCTCCCGCTGCTGAAATTTCAAGTTGCGGGCGCTG  
TCACCTCAGGACCCCTCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGT  
AGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAGCTTCA  
GGAATCCCCGCGTACCTGCCCCG

Sequence 305

NTTAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGC  
TTTATCAAGCAGAATTCCACCTGTATTTCTTAACTTGCCAGAGCTGAGTCTCATGGCC

AC

CCTTAGCAGGAGTTGGGGAGGTATTTTTAACAAAGGCACATTATCATCTCCCCACCCAAA  
GTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTAT  
TAATGTCAGGTTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGT

G

AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGT

Sequence 306

Table 1

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCAGCGGAAAGCTCAGCCC  
ATGTGAGGTGCCTCCTGCCAATCACAGACTACCTTCCCTGGTCCTGGAGGTTCAAAGAA  
TTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTG  
TGCGCAGAAAGAGGAGGCGCTTGCC TTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGA  
CAACTCAACTGTTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGT  
TG

TTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTA  
CCCACTGGTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATAT  
Sequence 307

CACCGCGGTGGCGGTTTAGCCCCGGCGCNAAATCACCATTATCCCCTTTAGTCACCTCAG  
AGGCTTGTTAATGCTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCA  
G

TCTTCTTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGGCTCCGGCA  
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTNGACCCCCCTCTTCGG  
TTAACTCCGCTTGTTTCTCTACAAAATGGCGCCGGAGGTCCCCCGCGTACCT

Sequence 308

TGGGGNAACCCGCGGNGGCGGTCTTGGGGNCAACACGGAAACCAAACGAACCGCGGCTGC  
ACCAGCNGNCTTTTTTNGGGGNGCCAAAACCCGAGCAGCCGAAANCNGGAACNGCCNCA  
GNNGTGTNCCNGCNGAAGAANGNCNANCCAGAGAGGCCAAAGNACCC

Sequence 309

CCCGCGGGGGCTTTNGGGGGCAANCGAACACCNCTTAAAGGGNNCNCNTCTAAAAATNT  
TTACNGGNAGAANAAAACCCACCAACCGCTTTTTANTATCGAGNGTCAGAAACCN TTCAC  
AAGATGGNAAAAAAAAAAAAAGAAAAAAGAAAAAAACAAAAACAAAAAACT  
TTACAACCACAGCTAANGCAANNNNNNCCANGGNTCCAGTCAGCTCCAANNCCAAGGGG  
NGCAAAGCCCANNNNNNNNCCAAGCATCCAAANGANAGAGACAGGCCAGGAAANNCTNTAT  
NCTATNGGGAGCAGCANNANGCAGGGGCAGCCAAACACAAAGCNNCAGGACAAAANGGACC  
NGCCCGGG

Sequence 310

CACCGNGGACAAGAGCAGGNGGTNCTTGGGGGGNGNAAAACCCGCNCCGCGANGCAAGAG  
GCTCNGCACAACCACTACTNTNCAGAAGAGCCGGGNGCCNGNCCCCGGGAAAAAGAGNGCG  
A

Sequence 311

CCTGAGGAAAAGCTCGCACCAGGNGGACGCGGATNNGGTANGGGGGGTAAAAANACCCNCC  
CCAACAAGCCGCGGGGCAAAANGNCCNCGTACNTCGGCCGCTCGAGA ACTAGCGNACCCN  
A

Sequence 312

CCCGCGGTGGCGTTTCCNGGCCAGGCACTTGGAGAAAGTATAGCAGCAAACAATGCCTAT  
TTTTNACAGGAAACAGAACANATACCCAGAAAAATGCCCTGGCAATCATCAAATCACAGT  
TTTCCAACATCAATAAAGTGTTTAACTCCTCATTTGAAAGATGGTGTTCTCTGGATTGAA  
T

ATTGAAGAATTAATAGAGAACTTCAGTCTGGAATGGTGGTAANGGATCAGATTTGNGAT  
GNGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAA  
GAAAGCAGGCTACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGCTGATAGA  
CTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG

Sequence 313

CCGGGCAGGCCCTTAGCATTAGATTGAGTTATGTTGCTAGGAGATNTTTATTCATCAGCT  
GATCATTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATTAA  
TTGTAGACCTGTCTTGTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTA  
AACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCTTGGTATTGTTTACCTA  
AAAGGAAGAAGTGTAGGAAAACTGATATAAGTAGAGAGNTTATTTGGG

Table 1

## Sequence 314

GNTTGGAGCTCCCCGCGGTGGCGGTTCGAGGTACGCGGGGGGTCCTGGAGGTTCAAAGAAT  
TGCAGGAGGGTAGNAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGT  
GCGCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAAATGTCGAGAGCTGT  
AGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTA  
CCTTTGTGTTCCCTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCCCGAA  
GATGGCCAAAGACAACCTCAACTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGT  
GATTATTGGTTGTTGCGGCATTGCCCT

## Sequence 315

CTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCNGTCAAAATAAATTAATT  
GT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGNGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCCANTTACAGNAACCCCTCTTGGTATTGTTTACCTAAA  
A  
GGAAGAAGTGTAGGAAAAACNGATATAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGT  
TACAACCCAACTGTATGGAGACAAGTTGGCCTGAACAATACACATTCTTATTAGCAACAG  
NTATAAGTAGGNTTTCAAAGAAAAAGAAGAGGCAGNTCCTAA

## Sequence 316

TCGNCCGGGCAGGTACAGAGACCTNCTTACTTACCCCCCTTNTCCTTCGGCTGGAGCTCG  
GCGAGCGAGAGGCGGCCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCAGTGGN  
AACAACNCAGAGTAACGCGGGAATGAAGAATNTTAGGCGGGTGCACCCAGTTTNCACCAT  
GATTAAGGGTNTTTACGGAATAAAGGATGATGTCTTCCTTAGTGTTCTTGCAATTTG  
GG  
ACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTT  
GAAGAAGAGTGCAGATNCACTTTGGGGGATCCAAAAGGA

## Sequence 317

TTTCGCCCCGGGCAGGTACTTGGAGAAAGTATAGCAGCAAACAATGCCTATAGACAACAGG  
AAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACAT  
CAATAAAGTGTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAATATTGAAGAA  
T  
TAATAGAGAACTTCAGTCTGGAATGGTGNNAAGGATCAGATTTGTGATGTGAGAATAT  
CTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAAAGCAGGC  
TACAAGATCTTTTGGAACAAAACTCTAGCCCTTGACAGGCTGATAGACTGATTGCTC  
AGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

## Sequence 318

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGATGAGAAATCT  
CCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAATGAAGGTAGTTGTCACAGTGAT  
CAGATGAGCAACGATTTCTCCAATGATGATGGTGTGATGAAGGAATCTGTCTTGAAACC  
AATAGTGGAACTGAAAAGATCTCAAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAA  
CTTTTCTCTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTAT  
A  
AAGTCATTCAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTTTCATCTAGCC  
TTGTAGAATAAGTCCAGTGAAGTGAATCTGCAGAATCTTCACTGTTAT  
AT

## Sequence 319

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCAAN  
G  
TTCAGTTTCCTTTAATGACCCCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATG  
GCAAGAGATGTTCACTTGAAAGATCTTGCCCTGATTGAAGGCTTGCCACATGCTGGAAG  
GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTCAGCCAAAGAA  
AGGGCACGTTCAAATGAGGTCAGAGTCATATCATACTGCTGGGCATAGAAGCAACACAGC

Table 1

CCCAGATTGTTAAAAAGCTGGCCGTTATAAATGCCCATCTGCAGCAGCCGCCTGTAAAC  
CGGAGAGCTATTTCTGGCTGATCAGAATAGAAGTGGTTG

Sequence 320

ACCCNCAGGAGACGCTCGNAGCCCCCGCGCTNNTCCGGGGNCAGAAAAACCCAAGAAGCG  
GCTCACGCCTTCCAGAGCCACATCATNTNTGGNCGAAANAGAAGCCCAGACNAGAGGAAG  
GNGNAGGAGGCCNGCAGGNACC

Sequence 321

CAAGCGGAGNNAACCGAAGAGGGGNACTTGGGGGGGCCAAAAACCCGACCCAGGAGNNN  
CCNGNGNCCAGCGCNGCCGGTTCCGCCNGAGGGGGGCACNCCCCCGCCAAGGCNGGAGNG  
CAGCGGCACAANCCCNCGNCACNGCAGCCNNGANANNNGGNCNCAGGNGACCAGCACCC  
NTGCTNTTTNTACNGGGAAGNNGCNAAGCNACCNGNCAANANAGCANACAAANNGAAACN  
GGGGGNGGNGAAGGANCNNAGAAGNNGGANGCCAGGAAANGGGANGAAGACCAAANGGGC  
CANGNNNCAGAACAGAGAAGACCCCNNGNAA

Sequence 322

CTCCCGNGACGAAAACACAANNNGNTTCTTNCGGGGGACAGAAAACCCAGACCCAGCTNCA  
GGGACAGCCTGGACTACTTTNTTTTACACAAACAAACCTCCCCGCGNANNCTCCTGGGC  
CA

Sequence 323

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAGTCTTCC  
ACAAAAATACTTTATTTCTGATCTATACAAATTTTTCAGAAAGGTTATTTTCTTTATCATTG  
CTAAACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGGGTACTTTTTTT  
TTTTTTTTTTTTTTTTTGAAAGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACC  
T  
GCCCACTCGCACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTCTGCCTTGCTGCTGGTACCTGCCCCG

Sequence 324

GGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAANGGGGACGT  
TA  
AATAAAATAAGCATGTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTAACA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGTTCAAAT  
T  
TACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTT

Sequence 325

ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAAGCAGAAGATGCTTCTG  
GTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTATCCTGCAGAATCACCAGATT  
ATTTTGTGGATTTTCTGTTCCATTTTGTGCCTCCTGGACACCTCAGGTAAATTCTCCT  
C  
AGAGCTCCTTAATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGNGAAGACCTGG

Sequence 326

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAGGGGA  
GT  
TAAATAAAATAACGCATGTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTA  
ACAAGTACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGTTCAA  
ATTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTNTTTTTAGTTTG  
AACTATGCAGTGCAAGATTCCTNTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACA  
CTTTATATTATGCCAGGTGAGGNGTCAGAACCTGGCATCGGAAA

Sequence 327

GCTCACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGGTACCAGCACA

Table 1

AACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 328

CGCGTCCGCCCATCTCAGTGTCACAGACACTCCTGGGTTTGAATTTTGTGTCTCT  
GT  
CTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAA  
GGAAAAAGAGGCTCTGTCTTAGCACATTCCTGTGACCAGCCTGCTGTCTGTGGCGTGCCC  
TCCTGGCCCCGGCCTTGGCACATGTTTCGNTTTGTGGTTGTTGCCTGGACAGGCAACTCTG  
CAGGGCTGCTTCTCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTGTCAAGGGC  
TTTTGGGTGAGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGCCTGTCCCT  
GGTGGGGCT

Sequence 329

NAACTTTACAGGATGGCATTTAATACAGATATTTTCGTATTTCCCCCACTGCTTTTTATTT  
GTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCANCAACACTGAAGAGATCA  
GTAGTAAGAATTCCATTTTCCCTCATCAGTGAAGACACCACAAATTGAACTCATACTA  
TATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAATATTTAAAGAGAC  
AGTNTTTTCTATGGGCCATCNTCCAAAACCTGCTATGNACCATNCAACTTAGGTTCT  
TA  
CNNTTCCTGCCTTAAATTTNTAATGGAGNAANGGGTATTTCTTTCAATTTTAAAATTT  
GCATTTTTTGGGGGAATTATACCTTCCCACCAATCTTTTTGANTNTATTTTCCCTTGG  
A

CCTTAAATCATGAATTTTTTCAAATTAANAAGGTTNNAAGNTTTAA

Sequence 330

AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATNGTTCACTCACTTTCAAAGCCAGCT  
GAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGACTTTTACGGACT  
TGGCTTGTAGAAGGCTGAAAGATCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTT  
TTTTTTGGCTTTCTTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTC  
CTTCATCCTCAGAATCTGAGAATTCTTCATCACAAGCTATCCGCTTGTCTGATGCTCG  
AA  
TAGAAATCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACAGCA  
T

CTTCTGGAATAGCCTGCATCTGGACACCCAGGTGCATGAGGTAACATGCGCAAATTTCA  
AACAAACCGCTGGTTTATCTTTTC

Sequence 331

CTNCCGCGGTGGCGGCCGAGGTACTAGCAGTTGCCAATGAAGGAGGCTTTGTTTCGATTGT  
ATAACACACGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGG  
AATGCCGTCTTTGACCTGGCCTGGGTTCCCTGGTGAACTTAACTTGTTACAGCAGCAGGT  
GATCAAACAGCCAAATTTTGGGACGTAAAGCTGGTGAGCTGATTGGAACATGCAAAGGT  
CATCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTA  
CC  
TGCCCCG

Sequence 332

CCGCGGTGGCGGCCCGCCGGGCAGGTACCATCTGACTTGGCAATGTAATGACACACACGT  
TAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAG  
TCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAG  
TAGAACATGGTACCT

Sequence 333

CGCGGTGGCGGCCGNTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGGGAAGGG  
AGGCGGTGTTTTGCTGATCTGTAAATTCCTTAGTGAAGTTTCCTTGATTTCCAGTGGCT  
G  
CTGTTGTTGAGTTTGGTTTGGAGCAAACTGAGGTAGTCCTAACATTTCTGGGACTGAA

Table 1

TCCAGGCANGAAAAAAAAAAAAAAAAAAAAAGGTACCT

Sequence 334

CCCCGCGGTGGCGGCCGAGTTTGATTTCTTGACAGTCCTGAGCGATGGAGCCCGGGGGTGC  
CTGGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGTTTTCAAGAGAACCTTTTT  
C  
GATATTCATTGCTCCATCGATTGGATCCAGTCCTTGTTTCAGAAAATTGTTTCAAGGCA  
CT  
TAAGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGT  
AC  
CTCGGCCGCTCTAGAACTAG

Sequence 335

GCTCNCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTGACTGCTAACAACCTTTCAAATTCCTT  
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAACTGATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T  
CAACATCTGAAGCAAATGTTGGGTGGGGGGGTACCTCGGCCGCTCTAGAACTAGGTGGAT  
C

Sequence 336

CTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTCATGAAGGAGATGGCCCCCTTTGGGAGC  
AACCAGAGAATCACTGAGATCCCAATGGAAACAGGAGGTTTCAGCCAGAGGAACCGACTTT  
TAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC  
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGT  
GGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGTATCCCTCTG  
TCAGCAAGAAATGGGATGTGCCAGGCCCTGCACAAAGGGCCCTCTACAGGGGGTGCCACC  
CAGAGGAAGGGACAGTCACGTCTCGCTGGCAACAGGGTGTTGCCCTGGGGCTATTGAAGA  
GACCAAGACGCTCCTGGCTATTTTTTAAGTAGTTCTCAATTTTTATGGGNAAAACNCA  
A  
GACCTTNTTCAGCCAGNAACAGCCCCAGATTCTTACAGGGGGCCATTGGGCGGAAGGGACT  
CTTGGGAGCCAANGGGTTTTTTT

Sequence 337

CCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGTGTACATCCCGGTGGCTGGACATG  
CCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATACACTACTCCGCCTGGTGGAATCTG  
AGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTT  
TGTCCCTAGATTGGTCCACTGGGAAACTGGAAGGGCCGGGGACCAGCCCTTGAAGATCA  
TTAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCCAGGC  
TGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCGAGGCCTGGATTGCCGCTTTCAATT  
ACTGGCATCCAGAAATTGTGTATTACAGGGGGCGACGATGGCCTTTCTGAGGGGCTGGGAC  
ACCCAGGGTACCTGCCCCGGGCGGGC

Sequence 338

NAAAACNCCCCCGGGATAGAAGNNATTTTTNTCAGGGCACANANTTAGAANCCAGNNG  
GNTTNTANACCCAACTGGCAACATCAAGAANGAGCGGGGGGGGAAAAAANTGACAGGGA  
CGGGGAGCGGGCNCACAAGNNGCAGGGAAGGGAGACNCCACCNGNGGGGGGNCCTGGGGG  
CCCNAAAACCGNACAAAGGGGNGGNACACTGGCCGCCGGGNGCCGGGACGGAANNGAAGN  
AANNTAAGAAGGGGGGANCNCCCCCGGGGGGTGNAAGGGAAAANGGCGAANAANNCAANGC  
NCAAAANCNGAAANNCCCGGGNNNAACCCNCGAAGGGGGNNGGGGGNCCCGGGGGAACC  
CCAAGNGGGGNTGGAATCCCCAANAAGAGGAGGGGGGCGGAAAATNCCGGCNGCCGCC



Table 1

AAGGGGGNGGNAAAAACNAANGGGGGGCAAAAAAGGGCCNGGGNNNNCCCCGGGGGGGAAAA  
AAAAAGGGGGGNAAAAANCCCGGCCCAGGAACAAAAAAGGCCAAAAACAAACCAATNA  
ACNNGGGANNCCNNGGGGAGGCCAAAAAAGGGGGGGGAAAAAGCCCCGGGGGGGGGG  
GGGGCNCNNAAAAAGGAAGGGGGGGGGGCCGAAAAACNGCCAAAAAATANAANNNG  
GGCGNNTNGGGNNGGCTANCNAAAANGGGGNACNGGGGGNNCTTCCAAANNAAGGGGG  
AAAA

## Sequence 339

CGCGGTNGCGGCCNTCNTTTTTGTTTTTTTTTTTAAATAGCTGAAGATTTAGATTTAT  
TTGAAAACACTTAGTCTAATTTATATTAGGTGCAGAAAAATCACATTCAATAACCACA  
A

TTGTAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGATNTT  
T

AATTAAGGGATGATGAATCNCAACCCCTTGTTAATAAATGATTTNTTCTCTCAGTAANT  
A

GCAAGAATCTNTTTTGNNGGTTNCCGGGNCCTCNNGGGGTTTATTCNNANACNGGGNGCCG  
TTTTANAAATTTTAAGGGAATTTTTNTTTTTTAAAGNCCNNTNCCCTTCCCTTTTT  
TGGGCNATTTCCCCNGNAANAAAAAATTTTTNCCCCGGGGGNATAACCCCCCCCNAG  
GGGGTAAAAAACCCCCNTCTNNGACNNAATTTTTGGGGGGGCNNGGTTTTTTTTNG  
NAANAATTTTTTTTNCNNGNNAAAACCCCNCTTNTAGNGGGGGGGGGGGGGGNGNT  
TT

## Sequence 340

CACCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCA  
GAAAGAGGAGGCGCTTGCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAAC  
AAGTGTTCGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT

## Sequence 341

GCGGTGGCGGCCCGCCCGGGCAGGTACCAAAGAAGATGCAGTTAAATACTGCCAGTTTTC  
CAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCTTAAACTTTTCTCACC  
A

CACCCACCTTCCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCT  
CAAGCTTTATGCAGTGCGTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA  
GTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA  
ACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGTATGTTTGGTTTCTCACTG  
N

TATCTTCCTTTCCTATAATTAATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCT  
TCAATATTTTACAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC  
ATTTTCAAATGTTTGCCAACCTCACACAAGTGTGTAAAAATAGGGCTCT

## Sequence 342

CCGCGGTGGCGGCCGAGGTACAGGTTAGTCTGAATGCACTGTCATGAAATTTAACTTT  
CATTATAACTGTTTTAAGAACTTACAGCATCTGCTTTACAAATGGTGTTAGCTACAT  
G

TCGACACAGCATCTTTAGCCAGTTTTCTTTTGGAAAGTTCATCTGATGTCATCTGGAAAC  
T

GAGTAGCACATTTGCCTGCTCTGTTGGTGGCCTCACAAAGCAAGGCAAAAGCATTATGGCA  
ATCTAGGGTTCCAGAATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGT  
ATGCAAGTTTAGTTCCCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTTCTCCA  
CTTTCCTTGTCCTATTTTTAATAAGACAAAGAACATCACCATATTAAGTTGAAGTACCT  
G

CCCGGGCGGCCGCTCTAGAACTAGGTGGATCCCCCGGG

## Sequence 343

CCCGCGGTGGCGGCCCGCCCGGGCAGGTACATCAGAGATGCTCACACCATTCTTTGAGTA  
GTTTAAAACTCATTTTAACCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAATA

Table 1

GCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA  
C  
TTCTTCCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATCTCAAAGGCA  
TGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGCAGGAAGATTTGGGAGCCAGAT  
GATACTCTTTTCCTCTTAGAGAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAA  
TTCTAGACGCTGGCTTCTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCA  
AA  
ATGTGCTTCAAATATAGTTTAAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAA  
C  
TACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGAATCTAGTAG  
TAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAATACTAGGGTAAATATT  
TTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAAAAAAAAA

Sequence 344

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GG  
GGGAGTTAAATAAAATAAGCATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACA  
A  
ATGTAACAACGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGG  
T  
TCAAATTTACCCCTTCTTGTTTTCTTGTCTTTTCAGGTAATTAACCTTCTCTTTTTA  
GTTTGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAAA  
AAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAAGTGTTGGC  
TCACGGGTCATAGGGTAGTAAGAAGAATTTACAGAAGACAGTATAGGTTGCAAAA

Sequence 345

AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAATGCAGAAGCTC  
CTCGAAGGGGCCACCATCATCCTGCAAAACACCAAGCAGGGCAGTCTCTTATGCTGTGGCT  
CTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGTCTCTCTGCTCTATCCGCTGCTGTGGC  
AAATCCTCTAAAAACAGCGTTTTGCACAGCAGAGAGCAAAGTCCGCTTGTTATCCACCC  
GATACGTGAGCTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
GAGGCCTTGTAAGTACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTGCCCTCA  
CCCTTGACACATGCGGACCCTCCCCAGGC

Sequence 346

GCGATTGGAGCTCCCCGCGGTGGCGGCCGGGGTACAAGAGAAGAAAGACCAGTCCTTGCT  
GAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAA  
C  
TTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATT  
CTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTAC  
AATATCACCTTTCTTATAGATTGCGATATATGTGGCCAAAGGAACAACCTCCATGTTTTC  
T  
AAAAGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTTCCCTTTGTGTTGTCATT  
TT  
GGCGAATTACTGGAAGATG

Sequence 347

AGCTCNCCGCGGTGGCGGCCGCCCCGGGCGNGGTACCACNGCCCAGCTAATTTTTTTATGTT  
TGAGTAGAGACGAGTTTCACCATGTTGGTCAGGATGGTCTCAAACCTCCTGACCTCAGGT  
GATCTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCATACCTGG  
CTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAG  
A  
CATACCTTTTCACGCCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCACTCCA  
GCAACTGCTTTCAATCGGAGTTCCATCCTCCGCCGAGTATGCCCTAACGCAAGCGTTAT  
CTTCAGAGCTACCACCAGGNTTCCGAAACTTTTTCGGNGGGAGGCGCTTTNGCCACCACC

Table 1

TNGCCGGGNNAAACGGNTNGCGTNAACCAAACCTTTGAACGGCCAGNCCCCCGNGGTAC  
CTTNGGGCCGTTTAAAACTAAGNNGGGATNCCCCCGGGCTGGCAGGGAATTCGAT  
ATTCAAGCTTAATCGATACCCGGCGACCTTCGAGGGG

Sequence 348

ACTCCCCGCGGTGGCGGCCGCCGGGCGAGGTACTTGACTGCTAACAACCTTCAAATTCCT  
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAACTGATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGGACCTGCTTGGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA

TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T

CAACATCTGAAGCAAATGTTGGGTGGGGGTACCTCGGCCGCTCTAGAAGTAG

Sequence 349

CCCGCGGTGGCGGCCGGAAGGAGGACGACGGTGCTGTGCTGTGTATGAAGAGGCAGTGAA  
GACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAGATTTAC  
TAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGGAACCAACCATGACTGTATT  
CAGGAAGGCACATGAAGTGAAGCTTCTGTCAGAAATGCAATACAAGCAGTTGAGTGTTC  
GTTGCTGTGTTATACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATT  
GTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAG  
CCCTGACATAGCCATGCTTTTTGAAGAAGCCTTGTGCACCTGAAACCC

Sequence 350

CTCCCGCGGTGGCGGCCGCCGGGCGAGGTACCCGTGCTAAAAGACTTTTAGTTCGGCTCT  
CCCAGTGTTTTTTTTTCGTGATTTGGGCACAGAGTTTCTGGTTCACGTGGATGTGA  
GG  
ATCCTTTACTCCAGATCGCCAGCCAGTTTGTGTTTTTCTCCTGCGTTGCTGAGAGTCT  
G

GGTTTATTCATCACACCAGGTGGATCTTAATTCCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATC  
CATGTACCT

Sequence 351

CCCCGCGGTGGCGGCCGCCGNNCTGGTACTTATAATGCCNNNNNTTNCNGGNTGTGAAT  
GGATTACANTGTATCTTTTCAGGGAAACCTATTATTATCAATGTGACTCCACNGGGGGAG  
TCCATGGTGATGATGATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAAC  
AAGTTTAAGACTTTATGAGAGAAGAAAAAATCACCAACAAGAATTGTTTGAGGAAAAA  
TCATAACTATCCTGTGTTCATTTTTTTTTATAAACAATAAGAAAAAGTTGTTGGATTT  
TTTTTAATGATTTCTTTTTTGGGGGAGGGAATTTTGTGTCAGTTTATGGTGAAAA  
T

GCAAAAACCAGAGCCAGGTGCATAATCTTGTAATCTGTGGATATCCCTGGAGCAGGACTG  
ANCCT

Sequence 352

NCCGCGGTGGCGGCCGCCGGGCGAGGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGT  
AACACGCAGAGTCCCGGGAAGCAGTGGTAAACAACGCAGAGTCCCGGGAAGCAGTGGTAA  
CAACGCAGAGTCCAGGGAAGCAGTGGTAAACAACGCAGAGTACCCGGGGAAGGCAAA  
TAGAATGAGAACCATATTATGTACCT

Sequence 353

CTCCCGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
CTTACTTTGGGCATTAAGTCTGTTGAGGTCTCACAGCCTGATGGTCATTATCCCTGA  
AT

GGCATAAATCAACAGGCTGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTC

Table 1

AAACCCATGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGAAGTTA  
AAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCC  
ATGAGCTCCTCATCTCTTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGG  
GTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTGGGTTCTCCCAGCTC  
AC  
TTCCATAATGTCCTCCTAGGCTGCATTGGAATTTGTGTGTTGTCTAGACCCATGGCCAAN  
ACTGTCATTGCCTGTGAGGGAGACCAAGCTTACCCACCCAAGGGCTTTTG  
C

Sequence 354

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
GC  
CTTTAGAAGGTTAAAATGCCAATATAAAGCTAAAACAGTAATCATCAGAGACAGCTCTAA  
TAAGGCTTTGCTACTGTTTTTACTATATAAATCTTTACGTGTTAATGGAAAGAAAATTAA  
TTCATTCTGTTACTCCATTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAG  
G  
GGCAGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACAGATATTT  
AACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCTCAATTCTGGGAATTC  
T  
CCTAGCTCACACAAATGAAACGCACATCTCCATGAATGCTTTCTAATAAATGCTTCCAGG  
ATAGTATCATAAACAAGTCAAATTAAGAAAAATCAC

Sequence 355

GCTCCCGCGGTGGCGGCCCGGAACCGCCATCTTCNAGTAATTCGCCAAAATGACGAACACA  
AAGGGAAGGAGGAGAGGCACCCGATATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTT  
GGTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGA  
ATGGGTACTCCAAAGATTGAGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAAT  
TTCCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAA  
G  
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTGGTCT  
TTCTATCTCTTGACCT

Sequence 356

GTTGAGCTCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAGATGGTGTCTA  
CAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAACCTTTATGTACTGAGTAACA  
T  
TTGAAGGTTGTCTTTAATGGTGGGGGGTGTCTTTTCTTTTAACTACAGTGCTTGC  
A  
CAAGAGAGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGG  
GATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCCTCCCCCATGTTTGATTCA  
AA  
TTCCATGAGTGACCTACCTTTCCCAGGAATGGGACTGAGAGGGTAGTCTCCAGCAACTC  
AGTCTGCACAGGGCTCCCCGTTGAGGCTGCCTT

Sequence 357

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTGGCAATGTAACGACACACA  
CGTTACGTGTGGGGCACAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAATCC  
AGAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCT  
CCAGTAGAACATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCAATTTG  
T  
TCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAATCTCTCCATC  
T  
ATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCATCTGCACAAGGAGTATTCCA  
C  
GTGCTGAAAAGACAGAGGATTAAGCCCTCCTTGTGGAGGCATTCACAGTCTGGTTTAAAT

Table 1

ACACAAACCAACAATTATAATACACAGGGATAAAAAAGTAGAGGCACTTATTGCATACC  
TGACCT

Sequence 358

TTGACTCCCCGCGGTGGCGGCCGAGGTACTTTCTAGCAGTCTGTGGCCACTCCATACTC  
AGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTC  
TTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGC  
TGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCCCTC  
TGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCA

Sequence 359

CGGTGGCGGCCCGCCCGGGCAGGTACTGGTGTGTGATCGGAACGTGTGATCCCCCTCTTC  
TCATCACTGCTGCTCCAACCTGGATTTATTACTCCGGAATGGTAGAGAATAAAGATTTGT  
AGGAAAGGTGCTGAACTGCCAAGGAAGGCATTTCTTGTCGCGTGTCTGGAACCGTGTATC  
CTTACTACATCACTGAACGACACCAAGCACCCATGCACTTCTGGGTCCAACCTTGGCCC  
CTGGAGAAAGACACTGAAATTTGGCCATGCAGGTCTACTTCCCGTAGGGGGGATTTTTTT  
TTANNAANTGTTTNNGCCCNNTTTGAAAAAGGGNTTTTAAANCNAAAAANAAANTTT  
T  
NTTCCCCCGGGGGGGNNGGNNTTTTTTAGGGGGGAAAANGGNGGTTTTANTCCCCCN  
NNGGNAAANCCCCCNNTTTTTNTTTTTTGGGGNNGGGAANATTTTTNNGGGGTGCN  
CNGGNGNNTTTNNNNANAAANNAAAAACCCCCNNTTTNNTTTTTTTAAANANACCCNCNN  
AANNGGGGGTTTTTTTTTTTTTAA

Sequence 360

TGGCGGCCGAGGTACCTACTGAAAACAAACACGCCAGAGGAAATTTGGCCAGTTATCCA  
ATTGATGAACTANTAGGATAGAGCCAAACAATCTTTCAAGAGGGTGTGTGAGATATG  
GTTGACCAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCAATCTNCCCACACT  
CCTGTGGAACTGGTTGAAGTGATTCTTGAGGGAGCAATGCTGAGGCTTGGCATGACAAA  
TCCGCCCTATATTTTAGAGCATCTGGAGGAAATGGCANAAATCCTTAATCACCCCAGAGT  
CTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGCGTACCTGCCC

Sequence 361

GATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGA  
ATTTCTTTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCGCGTACC  
AGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCCGTCTACCCGGGAATCC  
GGGGTCCCTGACCGA

Sequence 362

GAGTCCCCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCTATAAATGTATG  
TGTCTGAATTTTCAAGAGCTTAATAATGAATTATGGAACCTTGATAATGATTGGATCAGGCA  
GACAACACCTGATCAGTCCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCCTG  
AGGTGAGGCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAAATGT  
AACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAGTCTAGATTGTGGGACATTCCA  
CAAACCTGCCTGAACCTTTAATAATGTCAGTGTGATGAAAGACACACCACACACACACA  
CTGCACATCATACAAAACACCACCCACCACCCACCACTCAGACACACACAAAAGGGCA  
ACTCTAATCAATTAAGGAAACAAAAGAGAAATGACAACTACATATAACGTATAATTCTTG  
ATTGGATCCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Sequence 363

GCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCGCGTACCAGCACA  
AACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 364

TNCCGCGGTGGCGGCCGAGGTACAACGCATGAGTCCCGGGAAAGCATGTGGTAACAACGC

Table 1

AGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTCAGCACAGCCCAGGGTGCCCGGGA  
CTGAAAACCTCCTTCACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGAT  
GAAAGCAGAGCCCATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAAA  
AAAAAANGTNCCTGCCCG

## Sequence 365

TGACTCCCGCGGTGGCGGCCGAGGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCAT  
TAGACAGTAACCCTCAAGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACTC  
ACTTGTTCCCAGAGTTTCTATTTGTTTTNTTTTCTTTTCTGTGACTTATTTTCCTATT  
TTCTTTCTCCATGTAATTTTCACTATGGCCCACTAATATAAACACCTGGAAATTACA  
A  
GGAAAAAAAAATTCTTCCTCTAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGC  
AGTTATCAAGTTATGCTTATATAAGCATTAAAAATTCTCCTCCTTGACTACACACACA  
A  
CCACAGTGTGGTTCTAATCNATGGGAGATATCAAGTAATTTTTTAGTAACCTGAATTTT  
G  
AGGGACATTTCTCTGTTTAAGCATGTATGCAAACCTGATATGTAATCCTGANGGTCCCAAG  
TCAATTTTTTTCTT

## Sequence 366

CTCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATCAAGCTGACACTCAG  
TATTAACCATCACAAAGGCGTGAGGACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAA  
ATAGTCCCACACCAAAGTCAGGATCAAATGATTCTGGACAAGCCACCAAGTCAATTCAA  
CTGAGAGAAAGAAGCCTTTGCACCAGTTGGTGCTGGAAGTTCTGGATATGCACCTGGATA  
AGTGAACCCCCCTCCGTCACCACACACAAACGTTAATTTGAGATGGATTGCAAACATAAA  
AGCTAAACCATTAAACACTTCTTGAAGGTAACATAGAATATTTTGTAAATGTTATGATAG  
G  
CAAAAGTCTCTTAGGACACACAAAAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCA  
GTGGCTCACACCTTTAACACCAGCATGTTGGGAG

## Sequence 367

CTCCCGCGGTGGCGGCCGAGGTACATTGTGATTCAAGAGAAAAAGTCACATGCAGGTCTG  
AGCTCCTCCAGCAGGCCTTATGTAATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGA  
TGAAGTGGCTGAATGAAGTGCATGACAACCTGAGCAAGCTCTCAGTCCAGGATTACAGCAC  
TGAGGGGCTATGGAAGCAGCAGTCTGAACCTCGGGTTCTGCAAGAGGACATCTTACTCAG  
GAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTAGAATACTTAAACAAACCACAGG  
TGATGAAGTTTAAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTACTGCCAGAT  
ACCGAATTGAGCATACCACAAAAAGTTCTCATTTTGTGTCCTCCCATNCCATTCTCCT  
C  
ACTAACCAAAG

## Sequence 368

CTCCCGCGGTGGCGGCCGCGGGGCTGGTACAATGTGCCTGGCACCTTACAAGACACAAAT  
ATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCA  
AAGAATTACCTGGGGTCCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGCA  
TCGCCCACAAAC

## Sequence 369

CTCCCGCGGTGGCGGCCGCGGGGCTGGTACGCGGGGGTTTCCGGTTTGGGTGTGGCCG  
CATGGCGTGCTGGGGTGCAGGTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCA  
TCCGGCAGATGTAGATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCA  
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAATCCTTAAAAGA  
GTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAG  
CCAGGAACAATTGTTCAAAGTTTCTTTGGAACATCAAGGAAGGAAATCCAGATTTTACTT

Table 1

TAAGTGCAATGGGGGAGTCATTAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCT  
TCAAGCCACAATGGCCCTCACCAGAACCCAGC

Sequence 370

CCCGCGGTGGCGGCCGAGGTACTTAAACCAATAAAAAGTGACATTTGAATTTCTTTTAA  
AAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACCAGCAGAAACCA  
GGACAGCCTCCTAAGCTGCTCATTTACTGGGCATCTACCCGGAATCCGGGGTCCCTGAC  
CGATTCAGTGGCAGCGGGTCTGG

Sequence 371

CCCCGCGGTGGCGGCCGCGCCGGGCAGGTACGATTATTTTCAAACAAGCCTACGTCCCTGA  
CTAACCGAGTGGAAGGTGTGAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGAT  
AATCAAAGGAGAGAAGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTC  
GTTTTAGAAACGATTGGATTTTCAGATAGATTTCAGTAAGAGAATAACAAGTCTTA  
T

TTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTATATTTAATATCTGTTT  
TCCCCACACACTTGCTAATCTACATTTACAATCTTCTTCACTTTCACTTTGTCTGCAA

A

GGAAATCTACCCTGGGACAGAANAAGCATCTCTTTTTTTTTCCCCCTGACCCTTGGCA

TT

TTCCTCTCCCTTCAACTT

Sequence 372

GATTGAGCTCCCGNCGCGGTGGCGGCCGCGCGGCAGGTACGCGGGGATGTCTCTTGTC  
AGCTGTCTTTCAGAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGA  
GAAAGCCTTGAAGTCTATCATCGACGTCTACCACAAGTACAAGAGATAGAAAGACCAAGTC  
CTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTA

A

GTCAACTTCAATGTCGGATGGATGAAACCCANACACATAGCAATTCAGGAAATTTGACTT  
TCCATTC

Sequence 373

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAATGGAAACGCCTGGAGAAAAGAG  
GATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCC  
TCACCTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACG  
AACCCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTCTGGGG  
ACACATTGAGGATTTCTCAAAGCAGGTGAAGGTACCTGCCCG

Sequence 374

TCCCGCGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCCTTGTGAATCTCCTCAC  
GGAGGCACTTGCGAGAGTTAATGGGCAGATGGAAGGAGATGGCAAGGACCAATCTGGGGC  
CGAGCAGGAACAAAAGCAGCAACGCTAACGGAAGGGCCGCGCGGGCTGGTGGGCCAG  
ACAAACCAGACATGGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTG  
TAAATAGCCTCAGGCAGGTCCTTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGG  
AGCTGATGGCTCCGCCTGGGTTACTGCCCTGTAGACTTCCAGTGGGACAGGATTGGGAG  
GTGGGAAGGACAGTGACATGGATGATCCCGGACCCCTTGTAGGTCTAGGCTAACGTGGTG  
TGNTTTGNGTCNTTAGCTTTTTAACCAAAAAAAGTTTAAAAAAGGTTAAANNANCNT

N

TNNNNNNNNNNNNNTNNAANNNNGGGGTNCCTTGCCCGGG

Sequence 375

TCCCGCGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTA  
CTGGAAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCA  
AACAGTTCTGCTATTATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATT  
CCAGCCTATCACCTAAGAGACCTTATCAAAGCATGCTTCATGATGATCCAAGCAGAAGA  
ATTCCTGCTGAAATGGCATTGTGCAGCCATTCTTTAGCATTCTTTGCCCTCATAT

Table 1

T  
GAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGATGAT  
TATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTTAGAAGATGTAAAAGAGGGAGGTG  
TCAAAAATATGGACCAGGTGGTATCTCTACTTTGTTCCAAAG  
Sequence 376  
GGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGAGGGGAGCACCGC  
AGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGTGTTCTTCTACCTAGCCTAGT  
TTTTTCTACCAACCTAGTTCACCTAGTTTCTGCCTAACCTCGTTAGATATCACTCTT  
C  
GCTGCTTCAAGAATACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTTGTG  
T  
GGCAAAAACAGNAGATCACATCCCATTGTCTTTTGN GTTCTCTTGGCTGNTTAAGCANC  
AANAGTTTAGCACTTTAATTCATTGCTCTACCAAATGGTTTAGTTTGAAATAGGGGTG  
G  
ANGTGGACAAGAAGNTTTTGNTTTAATCCCTTCAAAGCCAATTNAACTTGGTTTTTGGT  
T  
TTAGGTNGAGGAAGGGCCANGNANTNGTTCAAAGGTAGGCCTCAATGNAACCGTTTACCC  
CCCN  
Sequence 377  
GCGGTGGCGGCCGGACGGAGGAGACGGTGCTGTGCTGTGTATGAAGACGGCAGTGAATGA  
CTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAAGATTTACTA  
AGAAGTCAAAATAGTGGGTTCTTAGAGGGAAAGAGGTTGAAAGAACCATGACTGTATTCA  
GGAAGGCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTTCGT  
TGCTGTGTTATAAC  
T  
Sequence 378  
TCCGCCCCGGGCAGGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGT  
ATTACCGCCGAGTGGACCTGCTGTAAACCTGTGTGCCGCTGNTGTGTGCGCCAGTTGC  
CCGCTTNGTAGGACACCACCTCACACTCACTTCCCGNCTCTCTTTAGTTGGCNCCTTAGA  
GAGAACTCTTTCTCCCTTTGCAAAAATGGGCTAGAATGAAAAGGAGTATGCCNTTGGGG  
TTCGTGCACAACACAGCTTCTGATTGACTCTAACTTTCCAAATCAAATTCATTTGGT  
T  
GAAACANGACTTGTTTGCTTGGATTTTAGNAAAATACACAAAAACCCATAATTNCTGAA  
ACAAATTGCTTGANTCCTGGAGATNAAGGAAAGNTGGGATTTNGATTCCCCAAGTCCTCA  
TTGCTTAAGTAGGAATAAAATCCTTGACCCATGCNAACAACCAACTNGTAAATTTNGG  
TGAAAAANTGAAAATTTAANTCTTNTCCTTTAAAAAAAAGAAAA  
Sequence 379  
GAGGGACTGCTAGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAACTG  
TGTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTNTAGAACANCTACTCTCATTTTT  
T  
ATTCAGCCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAANAGGCAAGACCTTCT  
GAAAGTTAACATCTTAATGATTA AAAACAGTAAGTACGCACAACCGAAGCCGTAGAGTCA  
CACTTGCAACAAAAGGTTACAANTATTGCTAATGGGGCTCTGTCCGGTNCCTGCTTGCCA  
GCTGGACCATCTATTTATCCCTCCTCCTTGTAGCTGTCATTTTAATTGC  
Sequence 380  
NCCGAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTGTGACGTACGNTGAAATTGCAAA  
CGCTCAAACTTCCAACACTTGC GTATACACTTGTAACCCAGCTTTGNNAAGTGAGACAC  
GCATCAAAATCATGATGAACAATTGACCGGCTGCNTNGCAGTCAAGCAGTTGGGTTA  
Sequence 381  
CCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAAACAGCTACACCACCAGA  
AGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTGAGGTAGCCTGGCCCCGGNGGGCAC



Table 1

TGTGATCTCAGACTTCCAGCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAGCCAC

T

TATTTTTTGGTACCTGCCCC

Sequence 382

NGGCGGCCGAGGTACTTTTTTTTTNTNTNTTTTTTTTTTGGAGACGGAGTTTCACTCTTG

T

GGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGCTNTGCCTCCTAGGT

TCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCATGCACCACCAC

CNCCCNGGCAAATGTTTTTTTTGGATGTTTAAGNCNGACGTGGAGTTTCTCCATGTTGGC

CAAGGCTGGTCTCAAACCTCCTGACCTCAAGGGNGATCCACCNTGTCTCAGCCTTCCAAA

GNGCNTGGGGATTATAGGCNATGGAACCAATNAACGCCCGGGCCGCAATAAATTTGTT

ATACANNACTACCATGNAGTTAAATCTGCNANTANNATTGGGACCGAATGGTNTAATCCC

TTCNTACTTCTTTAAATTNTTCCCAANNGGACCTTCAATTAATAATAATAAAATTTNGGA

TCCTNTTTTTTTAAATGA

Sequence 383

CTGCCGAGGTACTCACAGTCACNCAAATTCNGNGGGTGGNTACACGGCTCTCCATTCTTC

TTCTTGGCTTTACAGGTTCCCAGGNCAAGAGCTTTACCCATAATTAAGNGNNTTCTGAGG

ATNATCCGNTACATAAACNACACCTCCTCTNGAACCATCCTTGGGGCCTTCATGGGGGTT

GGGCATTTNAGGNATCCCTTACNAACAAGNCCCCCNTGGTGNCGGNCTTTCCAGAAGCG

GCCTTTGGTGNAACCTTCNTCCCCAAAATAAANAACCAAGGGACAACAACATTTGNGGT

CANNNGGTNACCGAAANGAATCAATTTCAATTTTCCAATATGCNTCGAAAGGGGTTTTTC

CCACTATTNCACACCTTCTTGNGGGCCNNGAACCTTTCTTTCAAATATTAANCCCC

NC

AAAATTGGTCACCCCCAAATCCTAATTTCTTTCCAAACCTTTCTTCTTCTTGGCCCAT

C

TTTTTCCCTTTTGAANCCTGGAAGAACAAGGTCTTGAATCCAANTTTTTTCCGGGGN

CN

NCTCCTAAAAACTAANNNGGAATNCCCCCCCCGGGCCTGCAAGGGGAAATTTCCNNTA

NTCAAAAGCTTTAATCTNATTACCCNTCCAACCTTCCAAAGG

Sequence 384

AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCA

AGAGGACCATCTTGAAAATCCCCATGAATGAAGTGAACAATCCTGAAGGCCTGGGATT

TTTTGTCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTC

AGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAG

ACATCATTTATATGCAATTTATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGT

A

AAGGACCAGGTGAAGATGTTTGACCTTTTTGATATGAAACAATTTAAAA

Sequence 385

GTAATCCGTCTCAGAGGANGGGATGCAAACTTCGTGAAGACACTCACTGGCAAGACCAT

CACCCTTGAGGTGCGAGCCAGTGACACTATCGAGAACGTCAAAGCAAAGATCCAAGACAA

GGAAGGCATTCTCCTGACCAGCANGAGNGTTGATCTTTGCCGNGAAAAGCACGCTGNGA

AAGATGGGNGCCGCCACCCTGTGCTTGNACNTANCAACAATCCCATGAAAGGAGGTCTAC

NCCTGGCACCCCTTG

Sequence 386

CTTTTGAAGGCCCCGNTCGCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCG

TCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAA

AGGGTGACAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCA

GGAGTCCTCATTCTGGTGATAAAGATGGGCCGTGGCAGCCCAAAAAAAGCCATGAAGA

AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATGTACTCT

CAGAATGTTTGTATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAA

Table 1

AACCATTTTTTCAGATATAAAGAGAATTACTTCAAATTNGAGTAATTCAGAAAAAACTCA  
A  
GAATTTAAGTTAAAAAGTGGTTTGGACTTGGGAACAGGACTTTTATACCTCTTTTACTG  
T  
AACAAGTACCTCGGCCCCGCTCTAGAACTAGTG  
Sequence 387  
TCCTGTATTGCCTTTTTAATCTTGCTTGTTAAGNACNTTTCAGGGATTGTCATCATTG  
A  
TCATCTGTAAATTGTCAAGNACTAAGGTCCTAAACCTTAATC  
Sequence 388  
CCTTCCCNCCNGCGAGNCCGCNNGGGGAGATAAAAAATATCACCAACATAATATANCACGG  
ACTAACCCTAAACCTTCTGCNTAATGAATTAACNAGAAATANGGGGGCAAGGAGNGCC  
ANAGCTAANACCCCTNAACCAGACGAGCTACNTAAGAACAGGTA  
Sequence 389  
CACGCTGTAACTCTCAGCACTTTGGGAGGCTGAAGCNNGGCCGGATCACGAGGTCAGGAG  
TTTCAGACCACCTGGCCAACATGGTGAAACCCCCGTCTCTACTAAAAATACAAAANNGG  
GTGTGGTGGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGNGAAGAATCGTTTG  
AACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACGCCATTGCACTCCAGCCTGGGTGA  
CAGGGCAAGACTCTGTCTCCAAAAAAAAGAAAAAAGGAAAAAGCCTTTCTTGATGCTG  
TTCCCATTTCTCCACTAAAACGCCTGCTTTTCTTAACCTCCACACCGAACCAACCTGA  
AA  
TATTTTGGCNAGAATGCCAACAAGAATTGAAAGAAAAGATGCTTTACAAAAATAACAATA  
TAAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAAAATCG  
GCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGGAATTTTCGATATCAAAGCTTAT  
CGATACCCGTCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTGGTCC  
Sequence 390  
AGTACNCGGGGCTTTTCTCAGGCGGNNGCATGGCGGGACAGGAGGATCCGGTGCANCGGN  
AGATTCACCAGGACTGGGCTAACCGGGAGTCCGGCCGCTCTAGGGGN  
Sequence 391  
CGCCGAGGTACGCGGGATGGGATTTCTGACCATTGCCCCTGCCTCTTGCAAAATAGGTCT  
AATGGCAGGATGGTGTCTAATTAAGGCTACCAAGACTGCCCATTTGTTCCAGGCTGGGCA  
GTTCTAATGGGGGCAGACAATAGTGCAAAAAATTTTACATTTTATCTTTAGAGTGTC  
A  
GGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGT  
GGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCAT  
TAGGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACTTAGTCTGTCTAG  
ACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATGGTTCCCTCCATCACTGAG  
GACCTGACTTAAAGTTTTTCTATCTCACTTAAACAACCCTTTAACGCTCTCACTTAG  
G  
CAATAATAAATTCCTTTTCATGAATTCCCTTCA  
Sequence 392  
AGCGCGGGGAGAGGCCGGTTTGCAGTATTGGGCGCTCTCCGCTTTCCTCGCTCACTTGA  
CTCGCTGCGCTCGGGTCGTTCCGGCCTGCCGGCCGAGNCGGTNATTCAGCTTCACTCAAAA  
GGGCGGTAATTACCGGTTTATCCACCAGGAATCAAGGNNGGATAAACGCAGGGGAAAAGA  
ACATGTNTAGTCAAAANAGGCCAAGCNNAAGGCCAAGGNAACCCGTTAAAAAAGGCCCG  
CGTTGCTTGGCGGTTTTTTCCATAAGGGCTCC  
Sequence 393  
NATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGACACAGGCACTCCTTTG  
TCTGGTAGAGAGGAGGAGGGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGG  
GATGCATAAGTCCCTGCCTCCCTTGCTCAACATGTTCTCCTCTGCCAGCCAGTCAGC

Table 1

TTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTCTA  
TAAGTCTCTGTCCTGAGATCCTGGGGCTCCTCTATTTCTAGAAGGGATGAGGTGCCATC  
AAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGG  
CAGGCAGGTGGACATGAGGCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCA  
TGCCTG

C

Sequence 394

GTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGAGGGGAGAAA  
AACTATCTCCCACTCTTTTGGCCCAGGCAATGTCAACGACTTCCACATTCCCTGGCCCAC  
TTGCTGAGCAACCCCAGGTTCTGGCTCTGTATAAGGACCCTCCCCTNCCAACCCCAACCC  
AGAGTGCAGTGCAAAATCAACCAACAATTTACTGGTGGAAATGGCAATCAAAGGAAACAGTT  
AAACACCAAAACAATTNCTTAAAGCCAAAAAATATTTTTCATGGAGTTGAACATTTTTTCG

A

GTGTGTTTTTTTTCAAGTGTAAGAGCAGTGACATTTTGTCAAACAGAAGCAGCATCTAGG  
AATTCTGGCACTTGGGGTTCTAAGGGGGTTACAGGTATGCCATCATGGATTCTTCTCC

C

Sequence 395

NGGGGCGGGCCCCCGGNGGGGTTANCCTTTCCATTTTNNANCAACCTTTTAAAAGCCCT  
TGGGGAGGGNGGGGTTAANGGGGAATCCCTTTNAAAATTTTTAAATNTNAAAAAGGG  
CCCCCATTAAGNAATTTCCAAGGTTTTTNAAGCCTTTTTTAAACCCCTNAAGNACCAGG  
GNAAAAAGGTNGGAAAAAAGGGCCANTTTTTTTTACCAAAGGGNGGGGGGAGNGGAAGGG  
CCAAANTGGGAAGGAAAAATTAAAANGGGCAAAACCAAGGAATTANATTACCGTTCCAAA  
AAAGCNTGGGGAAACCAAGGGGGGAGGAAAATTCAAGNAAACCGTTGGTCCTTGGGCCT  
TATCAAGCCTTTTTTGGTTTTTTTTTGGACCTTACCTTAAAGGGCCCCCAAACCCCTT

T

TTTTTAATTTCCCTCCTTGGGAATNGGGGTTCTTGCCCAAGNACCCCAAAGGTTTCCAA  
GGGAAAATTTTTTAAGGGCCCCAAAAAAGGGGAATTTTTCCCCCAAAAAATNGGGGNATT  
CCCCCTTAATTAACCAATTCTTTCNAAAGGAAAAGGGAATTANCCAAGGGGGTTTTGGG  
AAGGNAAAAGGGAAAANGGCCCCCNCCAAGNAAAGGGGNCCTTTTGGGTGGGAATTGGG  
AAAACCCCCAAAAAAGGAAAAATTCCNTTTTTTAAAAAAGGGAAAAANGGGGGGTTN  
TTNCCTTTCNAAAAAATTGGCCCAATTTNGGTTCCCAAGGGTNAAGGNAATTTTTTGG

G

GGGTTNAAAACCTTTGGGGGCCAANGGGGGGGGAAAAAAACCCTTTTGGGTTCTTTGGG  
GGGGNAAG

Sequence 396

TGGGGGCGGGCCCCCGAANGGTTACCCCGCGGGGGGGAGGCCTTTTNTTNCCTTTG  
GGCCCAGGGTNTTNCNTTTCCTCAAGNCAANGGAAACCCCTTCTTTTNCCTTGGGTTT  
TTTGAAAAAANGGAATGGGGTTCCCGGCTTGGCNTTTTTTGGGGTTANGGGCCACCGC  
TTCAAGTTCCTTGAAATGGTTCCTGGCNCATGCTTTCCTCGGGGCCCGGCTTCNTAAGNA  
AACCTAAGTGGGGAATCCCCCGGGGGCCTTGCAAGGGAAATCCGATAATCAAAAGCTTA  
ATCCGGATAACCCCGGTCCGAACCCCTCGGAAAGGGGGGGGGGGGGGGCCCCCNNGGGGTAC  
CCCCAAGCTTTTTTGGTTTTTCCCTTTTAAAGTNGGANGGGGGGTTTTNAAAATT

T

GGCCCGGCCCGCCTTTTGGGGCCGGTTAAAATCCAATTGGGGGTTCAANTAAGGGCCTTG  
GGTTNTTTCCTTGGTGGGTGGGNAAAAATTTGGGTNTTAANTTCCCCGGCNTTCCAA  
CCAAAANTTTNCNCCAACCAACCAAAACCAATTTANCCGAAAGGCCCCNNGGGGGGNAA  
GGCCCAANTTAAAAAAGGGTTGGGTAAAAAAGGGCCCCCTTGGGGGGGGGGGTTGG  
GCCCCCNTNAAAAATTGGGAAAGGGTTGGGAAAGGNCCCTTAAAAAACCTTTCCAAAC  
CAAATTTTTAAAAAANTTTTNGGCCCGGGTTTTTGGACCGGCCCNTTTCNAACCCT

TT

GGGGCCCCCCCCCGGCCCTTTTTTTTTTCCCCCAAAAGGGTTNCCGGGGGGGGGGGNAAAAA

Table 1

AA

Sequence 397

GTGGGGGGCCGGGGCCCGGGAGGGGTACCCCGCCGGGGGNGGCCTTTNTTTCCTTTGGCC  
AGGTTNTCTTCCCNAACAAGGGGAACCCCTTNTTTCNTTGGGTATTTTGGAAAAAGGAAT  
GGGTTCTNGGGCCTGGCTTTNTTGGGGTTAGGGGCACCGCCTCAAGTCCTGGAAATGGGTC  
CCCGCCAATGGNGTGGCCNGGCCCGCATCTTANGGAAACCTANGTGGGGAATCCCCCC  
GGGGGCTTGCAAAGGGAAATTTTCNGAATATTCAAAGCTTAATCGGAATNACCCCGGTCC  
GNACCCCTCNGGAGGGGGGGGGGGGGCCCGGGGTAAACCCCAANCNTTTTTTTTGGTTTC  
CCCCTTTTTAAAGTNGGAAGGGGGGTTTTAAATTTGGGCCNGCCCGCCTTTTGGGGCCG  
GTTAAATTCATTNGGGGTTCATAAAGGCCTTGGTTTTTCCCCTTGGGTGGGTGG  
AAAAAATTTNGNGTNATTNCCCGGCNTTCAACCAAAANTTTGCCCAACCAACCAA  
AANCNCAATTTAACCCGGNAANGNCCCCCGGGGGGGGAAAGGCCCAATTTAAAAAANGG  
TTGGGTNNAAAAAANGNCCCCTTGGGGGGGGGGGGTNGGCCCCCTTNAAAAATNGGGA  
AAGGGTTGGGGAANGGCCCTTTAAACCTTTCAAACCCAANTTTTTAAANTTTTTGG  
GCCCCGTTTTTGGNCCCGGNCCNTTTCNAACCTTTGGGCCCCCCCGGGCNTTTTTNTT  
NCCCCAAAANGTTTCTGGGGGGGGGGGAAAAAA

Sequence 398

GCGGCCGGGTACAAAATTTAGAGGTTTCCCCTTTATCAACAAGAGACCCAGGTGCCAGCA  
TGTTACTACCAGATCCAGTTCTTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCA  
GACACTGGTATCTGAGCATCTGTGGCCTGCCCTGAGTTGTCAAGATAATTTCTTATCTC  
TGAAGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTTGTCTCCT  
TAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACACAGTTTATGGGACTTTT  
CTGTGAACCTACCTGAGGGCAAGAACCATGTNCCACTCCCTGCTTGCTCCTCAAATATTT

A

Sequence 399

CNGCCGAGGTACNCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAGATTTTTC  
TTTTTAGGTCCAGGAGTAAGATATATCATACNGAAAATGAAAATTATAATTCTTCTTGG

A

TTCCTGGGAGCCACATTGTCAGCCCCACTTATCCACAGCGTCTCATGTCTGCCAGCAAT  
AGCAATTGAGCTTACTTCTTAATCTTTAATAATGGGTCAACTTTTGCCACTACAACTT

C

AGGGGCCCACTTAATTCATGGANTCCACCTTTCTCTGGGAATTTTACAACAGCAGCAGCA  
GGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCCTGGAA  
CTGCTCCCAAATCAGAATACCTTAACCAGGGAAGAGGCCAGTTTGGNCCCAAAGGGA  
GCCCAAGGCAAGGGCCAAGGTTNGAATCCCNNTAACNGNNTTTAAAAACAACCCGCCTT  
TAAGAACACAAACCCAGGNCCCCCANGACACCGTTGAATGCCCTTATTGTTATTTCTTC  
CC

Sequence 400

GACAGACAGTGCTTGATGTTTATAAAAAATACAATGCCCTGGTAATGTCTGCATTCAACA  
ATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTGGTCGCTTCATAAACAACAACG  
CGGTTACCAAGATGGCCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTG  
ACTCCTTGTTGAAGAAAAGTTCCAAGAACCAGAGGAGGCAAGAACTAGAAGACACACTC  
AATCAAGTGATGGTTGTCTTCAAGTACCTGCCCGGGCGGTGAGCGGCNCGCCCCGGGCAG  
GTACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAAGTGTGTGAAGC  
TGAATGATGGTCACTTCATGCCTGTCTTGGGATTTGGCACCTATGCGCCTGCAGAGGTTT  
CTAAAAAG

Sequence 401

CGGTGGCGGGCCGGTTGCCTTGATGTCACGAGCAATTAGGAGAGTCACGAGGATGAAATA  
GATGAACCCGACCATGCAGTTAATCACCAACATCAACTACTAGCCAGACGGGATGAACCA

Table 1

CAGCGTCACACAATACAGTGTTCTGTGTAAGTGTAACAACACACTGCAGCTGGTAGTA  
GAAGCCTCACGGGATACTCTGCGACAACCTACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCTCGTGGTGTGCAACTGCAAACCAGTAACCTGCTATGGCCAATTGTGAAGAGAT  
GGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCCTGGGCTCAAGCAATCTTCCCC  
GCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGCCAGAAAAACG  
TTAAAAATTTGGAAAACCTTACTTTTTTTAATGAGCATTTTTGCATCAAGGGGGTTAC

A

GGGACATTAGGCTTTTTTTTT

Sequence 402

ATTGGAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACACATATCCTCTGTGGGAAAAA  
CTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCA  
ATGTCCTGAATGTGGGAAAACCTTTAGCCGAAGTTCTTATCTTGTTCGGCATCAAAGAAT  
CCACACAGGCGAGAAGCCTCACAAGTGCAAGTGAGTGCGGGAAGGGCTTTAGTGAGCGCTC  
CAACCTCACTGCCCACCTACGAACCTCACACAGGGGAGAGGCCCTATCAGTGTGGGCAATG  
TGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTCCACCAGAGGACCCATACCGGGGA  
AAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTCAACAACAGTTCACAGTTCAGTGC  
TCACCGGC

Sequence 403

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATGAGGATTGAA  
CTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAA  
CTACTGTTCTCAAGATTAGAAGATGTNCACACTCTTTCGATTACCTCCCTAAAGGAGGA  
AACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAATATGAAATGAGGAGAT  
GTTTTAGAAAGCAGGACANATCTACCTACCATTACTGGAATTAATATGTATCCTCTGGGC  
CCACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAA  
GACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGAAAA

A

Sequence 404

CCGCCCCGGGCAGGTACGGACGCCCAGGGATCCGCGCCGAAGCTAGCACGCANCCTACCCA  
ACAGTCTACACAGCNCGACCAAAGCCCCCGCTACCCAGAGGAGTCGCTGGTGATNGGGG  
AGCTCAACCCTGTTNAGTAGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGCATT  
GTGCAGATACACACCCCGNAGGAACATCCCTCCTTATTTTGTGGCTTTGGTGCCACAGGA  
AGAAGAGTTGGATTGACCAGGAAAATTNAGGTGACTTCTCCANGGCTTTCAGCTTGTC  
TTTTT

Sequence 405

CCGCGGTGGCGGCCGAGGTACGCGGGGGCGGCGGCGGAGAGAGCTGGCTCAGGGCGTCC  
GCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGCTTTCCTTTCCA  
ACTTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAGAAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGT

T

TTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTAAACAAGCACCTCAGCGAGAGCAG  
CAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGGGTGCCTAGTGTGATGACCAGGGCGG  
GAGATCACAAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGACTACCTGACCTCTGCAA  
AATTCCTTCTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCACTT  
TG

CGGGGTNTGTGTTTCTTGTAAGAACTCNATGGAACAGGCCTCCTT

Sequence 406

TCCCCGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGTTATTTT  
ACTGGTTCATGTATTTACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTA  
TGTAATAAAAAAGTTACCTCAGGGAGGTCTTCTGAGGTCTTCCAGCACACGGCATTGT  
TATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCACCTTCCAGTGGGAAG

Table 1

GATGTGGAGGTGGAAAGCATACTGATGATTTTGTCCCCGTGGAGGCCTAAGCTAATGTGT  
GTGTTTGTGTCTTAGCTTTCAACAAAAAAGTTTAAAAAGCAAAAAAAAAAAAAA

A

Sequence 407

GTGGCGGCCGGTGTGCTCATCGTAGCCTCGGGTCGGGGGATGCGTCTCCGCTTTAGCGCC  
AAGATAGAACTTCCTCAGACCACCGCCGCCCGCCCGCGTACCT

Sequence 408

GTACCTCCCTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAAGGCATCCAAC  
CTTTTACCAAACCTTAAAGTTTTTTCCGATTCAGTCGCCTCATCTTCAGGAAACCTTC

C

TCTTCCTTCATATAGTCATGCTTGTGTTATGGTCCCAGCCTACCGCCATGTTTTACAGA

A

GCCCCGGTTCGCCGGGGCTCCCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAA  
TGACACATTACCTCCACACTCTCCCGGACTAGG; NGTCAACAGGGCCACAGGGTTGCTTT  
CTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAATTAAGCATGGAA  
TGACAAGAAACANGGGGAAAGAGTTACCCTGTCACATAGTAGGTAACTTTTTTAAGGGT  
TTGCAAGTAAGAGGNNTTTCGACCCCTTCNCTTGGCTGAGCCANATCNCGGGAACCTTGAG  
AGCTTTTACTGGGATTTTCAATNNAAAAAATTAACAACAATGTCAAACCTNGGGTTTGA

T

NATTGGNTTAAAGCCTTTTTAAGATTCTTTTTTAAATAACATTTTTCCCCGAAAAAAAAA  
AAAAA

Sequence 409

TTTTNGGGGGGAGTTAAATAAAATAAGCATGTCTNCATCCTTTATTCCTAAACATTTAC

T

TATGACAAATGTAANNACTGACAGAAATTTGAAAAATACCANGACACTTCTTAAATGATT  
TCCCTTGGTTCAAAATTTACCCCTTCTTGGGTTTCTNTTGCTTTTCAAGGGTAATNTAA

A

CTCTTCTTTTTTANGTTTGAACATATGCAAGTGCCAAAGGATTCCNCTGTAGTCTTTCC

A

AAGGGGGGGAAAGGGGGTNTATANAAAAAAAAAAAAACACCTT

Sequence 410

GGGCAGGTACTGTGCAGTAGTAACCCATAATTCTAAATGAGGATTATGGATTTTTCTGGA  
AGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTT  
TTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGTA  
TATATGTATAT

Sequence 411

GGTACGCGGGGTGCTGGGATNCAGGCACGAGCCAGTGCGCCCAGCTGCCTNTGTTTNTT  
TATTAGCTGNTCTGGACTGNNGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCCA  
CACACTTTNTGAACTGGCCCGGTCAGGGGGGACATANCCATTTCTGTGCCCCCATCAA  
NACCCACCTATTCTGAGNGTNNGCTCCTCCCCTGCTTGAGTNATGGCCACANATCTTGGC  
TCGGNNCTCCTAAGCTGCATGNTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCCAT  
TCTCCAGATCCTTGGGT

Sequence 412

GCCGGGCAGGTACTTAGAGTTTTCCAAGTATGTTCTAAGCACAGAAGTTTCTAAATGGGG  
CCAAATTCAGACTTGAGTATGTTCTTTGAATACCTTAAGAAGTTACAATTAGCCGGGCA  
TGGTGGCCCGTGCCCGTAGTCCCAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAA  
CCCAGGAGGTGGAGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGAC  
AAGAGAGACTTGTCTCAAAAAAAGTTACACCTAGGTGTGAATTTGGCACAAAGGAG  
TGACAAACTTATAGTTAAAGCTGAATAACTTCAGTGTGGTATAAAACCGTGGTTTTTA

G

GCTATGTTTGTGATTGCTGAAAAGAATTCTAGTTTACCTCAAAATCCTTCTTTCCCC

Table 1

A

AATTAAGTGCCTGGCCAGCTGTCATAAATTACATATTCCTTTTGGG

Sequence 413

GCGAGGTACCTAGTCTANATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAATATTCA  
GGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTGTCTAGAGATAATAAAA  
GGAAGGTGAATTTTTTAAAAAGACAAAATAANGCTAGAAAAGACTGAGTGGAGAAAAGCCT  
ACAGAAATTCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGGAG  
GACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAA  
AGTGTCCCTTAATCAGCCTGCAGTGTGCAAAACAGAAACCCAGAG

Sequence 414

GGTGGCGGCAGGTACGCGGGATCCAAGATGAATGTGCAGAGAAAATAAGAATCCAAAGT  
CATAGTCATGAGGACAGAATAAAGACATTTTATGCCTTTTTGTTTTGTTTTGTTTTCTT  
TTTGTGGAGAACAGGGTCTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATA  
CTGTCTCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGCCCG  
GCCAGAATAAAGACATTTTAAACTAAAAAAAAAAAAAAAAAAGAGTTTGCTTTGCATTAA  
TCTTTTTTTCTTTTTTTCGTTTTTATTTTTAGTTTTTATTTTTTTGAGACGGAGTC  
TCACTCTGTCACCCAGGCTGGAGAGCAATGGCATGGTCTCGGCTCACCGCAACCTCTGCC  
TCCTGGGTTCAAGTGATTATCCTGCCTCAGCCTCCTAAAGTAGCTGGGATTACANGTGTG  
AGCCACCACGCCTGGCCAGAATAAAGACATTTTAAACTTANGGAAAANAAAAAN  
NNTNGNNNCNNCCCCCNNAAAAAAAAAAAAAAAAAA

Sequence 415

ACCGAAGACGAANGCCACTACATGCCCCCGCTACCTGCCCGGGCGGGCCAAAGGCCAAC  
AAGGGNAGTGGGGNCGGGCTGCANGAATTCGATATCAAGCTTATNGATACANGTTGACC  
TCNAG

Sequence 416

CCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCACGCCAGGGTCGG  
TGAAGGATCCCAAATGGCTGGGCGAAAACCTGCTCTAAAACCATTTGACTGGGTAGCTT  
TTGCAGAGATCATACCCAGAACCAAAAGGCCATTGCTAGTTCCCTGAAATCCTGGAATG  
AGACCCTCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTT  
ACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCCCGAAGAAAAA  
GAAGATGTGAAATCTTGCTGAGTGGGGTGTCTCTCTCAAAGGCCAGGATTGTAGAATA  
TGAGAAAGAGATGGGGAAAGATGAAGAACTTAATTCCATTTTGATCAGATGACCATTGAG  
GGACTTGAATGAAGCTTTCCAGAAACCCAATTAGACAAGAAAAAAGTNTTCCTATTGGG  
CCTANCCACCCATTGAGAATTATTAATTTGAGTNCAGGANGGAACCTCTGGCCCTTTGT  
ATTACCCATTCTGGGCCTTTAAATATTATTTTCCAAAAAAGGAAAAAAAAAAAAAAAAA  
AAG

Sequence 417

GGCGGNCCTTTTTTTTTTTTTTTTTTTTTTTTGGAGAGGGAGTTTTGCTCTTTTGCCC  
GGGCTGGAGTGCAATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTTCAAGT  
GATTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCCACCACCATGCCTGC  
CCAATTTTGTATTTTATAGTAGAGATGTGGTTTCACCATGTTGGTCAGACTGGTCTNGAA

C

TCCTGACCTCAAGTGATCCACCCNCCTTGGCCTCCCAAAGTGTTGGGATTACAGGTGTAA  
GCCACCGTGCCCGGCCATCAGTTGTATTTNTATATAGTAGCANATGAACAATCAAAATGN  
GATTAAANAAAATGCCNTTTTTAATAGCCTTAAAAAAAAAAAAANTNTTANTGAATAAAN  
TTTAANCCAAAGGAGGGGNCAAACCTTTTCCNTGGGAAATTCCAAAACNCNTNTTTGGNA  
NGAATTCAAAGNAGGNTGAAANCCCNCCCTTTTTNCGGNGTTNANAAAAANANATTT  
TTTANNGGGGGNCCCCNCCCAAANNATANTTCCNCNGTGGGGGGCCCTCTAAAAANAN

Table 1

TTTTTTTTTTTTNTAAAAAAAANNNTTTTTTTTGGGNG

## Sequence 418

CGCGGTGGCGGCCCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCTAGCC  
ACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATTTATNGNGAGGGAG  
GTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCCTGA  
TGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTAGCCAGAGG  
TCCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGG  
ATAAGAACAGAGGAGGCAGCAGCATTGCACAAGCCCCAGGCACAGTGGCAGTTAGGATGG  
CTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAATGTGATGTGCTTCATGTTTTCTC  
TGAATCATGGATCTGGTAGAGACCATAGACATGATATAGGACTAACTTGCCCATTTTTCA  
CANAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTTGAAAGGAA  
A  
CCATGTGCTTCATGAAACCTACAGTTGGCCAGAAGAATGNTCCTGCCCCGGCCGGCCGCT  
CTAAACTAGGGGATCCCCGGCTGCAAGGAATTCGATTTCAAAGCTTATNGATTCCCG  
NCACCTCGAGGGGG

## Sequence 419

CCGCGGTGGCGGCCCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGA  
AATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCATGGCTGGGGAAGAAGCAGC  
CACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTGGGCTTTTCGGGGAG  
CTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTCTCTCTCACCTN  
C  
TNTGAGCACAGCTTTCAACAAAACTTTGCATACCCCGCTACCTGCCCCGGCGGCCGCT  
CGAGGTACTTCTCTGAGCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAATG  
AGGTCCCTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCACCCGTGATATTCTT  
TTGTAGGTCTCTTGGTATGTGTTGCCTCAAAGGAGGCTTCCCACTAAAAATTCATAG  
CAAAGAACTCCAAGGCTCCAAGAGATCCACCTTCTCATCATGCATCCACCTTCAATCATT  
TCANGGGGCAAGGAGTCCAAGGTGCCACAAAGAGNGGTCTTCTGGGAAGATGGAGCATG  
TACCTCGGGCCCTCTAGNACTAGTGGAT

## Sequence 420

GAGGTACGCGGGGGTCCGGCGCCATTTTGTCTCGGCAGCGGTGGCCCGTAGCTCCATCGCA  
TTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTCATCAGGTAGATTGGTTTTGT

## Sequence 421

GGGGCGGGCCCGCCCTNCCCGTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG  
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGAGAGAATTAATACTTCT  
TCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACA  
CTTTCAACAAACAGCAGNGGCTTAAGTGTATTCGTCAAGCCAAAGAAACAGTTTTGTGTG  
CTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGA  
GCAGAGAGCTACAGGGAGAAACAAACTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACNAGTGAGGTGAGCCTCGACTGTGAGCGCATGGAACAGACAGACT  
CTTTCTGTGGAAACAGCAGGCACGGTGAAAGTAACCGTCTGACAGAAAGCATGTGCACTT  
CNGGAAGCAGGCCTGCATCTTACCTGTACCTGCCC

N

## Sequence 422

ACTTCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGAATCTGGGCCCTAC  
GTGCATTACAGGCAATGATGGGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATA  
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTTAATAT  
ATTAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAACCCCTATA  
AGGTCCTGGATAATTTTGTGTTGATTATTCATTGAAGAAACATTTATTTTCCAATTGTGT  
GAAGTTTTGACTGTTAATAAAGAATCTGTCAACCATCAAAAAAAAAAAAAAAAAAAAA  
AGTACC



Table 1

T

Sequence 423

NCCCGCGGTGGCGGCCCGAGGTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTA  
TGTGAAAAGCCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACATGGTAATGGGA  
AGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAATTAGACAGGGGGAAGTAAAA  
TTATCTTTTTGCAGATGATATGACTTATATGTATTATAGAAAACCTGGGCCAGGTGCA

A

TGGCTCTTGGCTGTAATCCTAGCACTTTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTC  
ANAAGTTTGAGACCAGCCTGGGCAACACGGTGAAACCCCCCTCTACTAAAATCCAAAAA  
AAAAAAAAAAATTAGCCCGGGCGTGGCGCATGCTAANGCANGGAGAATTGCGTGGAATC  
TGGGANGGTGGANGNTGCANTGAGCTTGAAGATCTCCCCCTGNACTTCCAGCCTNNGGGG  
ACAGANCCAAGACTNTTTTNTTCAAAAAAAAAAAAAACCGGGGGGNGGACCCCTCAAGAA  
TTCNCCCCNCCCCCCCCGAANCCCTGGTTTGAAATTAATAAATGGGGTCCGCCAAANA  
AAGTNCNGCTTNTTCAATCAACAGGCCAAAAATTCCTTGTTTTTAAANCCCTGCCCTT

T

AAAANTTTTAAAAAGGAACTTNGNATTCCCGTTTCTTTTTTATTGCCTCCAAAAA  
AAAAAA

Sequence 424

CCGCGGTGGCGGCCGAGGTACTGCCGAGCCGCTCCTCCGCGAGCTGTGCCGCTCCTTGT  
CCTCCTCCTCATTGTCAGTGCACAAACAGGTCAATGTCATCATCCTCGTCATCCTCTGC

TG

GTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTGAG  
TGTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACCAAGTTT  
GAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAAGATCTGAAGCCTGAGTGTG  
GGTACCTGCCCG

Sequence 425

CCTCCCGCGGTGGCGGCCGAGGTACTAAGTGGTTAAGGATGGAAAAGAGCTAACAAGTGA  
CAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGATCATCAATGTAGC  
GCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAGAACCTGTTGGCAAAGACAGCTG  
CACAGCTTCATTGCAGGTTTCAGGTTGGTTGATTCTTGGGCTTTTCTTCATCATTAT

A

ATAATGTAGTTCCTGATTTTCATAAATGTATATGGGTGTTACATCTTCTATAGGATAAC  
ATGAGTCCGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCCACC

Sequence 426

CTNCCGCGGTGGCGGCCGCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAAA  
CCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCTATGAATGTAAGCAA  
TGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGG  
GAGAAGCCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCTCACT  
GTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGATGTAATGAATGTGGGAAAACC  
TTCCGTCAGAAGTCGGCCCTAATTGTTCAACAGAGAATCATATAAGACAGAAACCTAT  
GGGATGTAATCAATGTGGAAATCTTCTGTGTGAAGTCAAACCTCATTGCACATCATAGA  
ACACACACAGGGGAGAAACCTATGA

Sequence 427

CCCGNGGTGGCGGCCGCGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTTATTA  
GCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAGGTTGTGAATTTAGG  
CTCCAGTTATATTCAGTGGAGAGCATAATCCCACACGGGTATTTATAAATACAGAGCCT  
CTGATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCTTCACAAGG  
TAAACTTAAAAAGCCAACCAACAAATGCTCTCCATTCTACTTTAATTGGGCCAAAC  
AGCATATGCTACAGTAGTAACATGTTTTTCGGAGAGTGAAAAACTCTGTTTACATT

Table 1

G

CCTCCTCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTCGCCAGCCTCAGACAA  
GAAAGAGTGAGCTGCTGGTACCTGCCCGGGCGGGCCGTCTAAAACTAGNGGGAT

Sequence 428

GGCCAAATGCAGAAACGTCCACATGCCACCAGGAGCAAGCTTCAAATGTTGAGCTTG  
CGGGGCANTNNGCAGAGAAATNCCAGGGATGTTCTGAAGGCCTNGATGATACCANTATC  
CTCATTATAAGATGAATGCACGGGGCCNTTGCGCTGGATACCGGCNAACCGGNTTCTNA  
TTNTGCCTNTGNCAGCTCTCATTGCTGAGAGGCATAGACCTTTTTGANGATCATTCCAA  
NGCTATAAGTCNTCTTAAGGAGCAAAAACAGCTTCCTTGGTCTNTCTTGAAGNCCTTCA  
ACTTTATCTTTCAACTACCAAAGGGAAGGTNCAGGAACTTTCTCAATAACCGANGGAC  
CTTTAGGACATGAACCAGGTGNCCTGGNTAGGGGCTGGAGGCCAGCCCAGGGCAAGAAACA  
NAATGGCCGATANCCGTTTTTGGGGTTCGCGCGGTACCNTTGNCCCGGGNCGGGCCGGCT  
TCTAANAACCAAAGTGGAANCCC

Sequence 429

CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGCTTTT

A

GCAAGTTGTGAATATACTTGGGCTTTCTGTCTTCCCCAAAAGCAATTTGGGATTATTT

T

CCTCCTTTTTTTCTGCATTTATCATATAAATACTGTCATATTCATACACAGTAGCATCTT  
CTGCAAGGGCCTTCTGGATTTCCAGTTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGC

TT

CCCTCTGAAGGCTTTCACCTCACAGAGGTCTCATCATCATCATCAGAATCATTCCCAAACA  
CTGATGGTTTTTGCAAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAAATAAGCCCAT  
ACTACCTGCCCCG

Sequence 430

GTGGCGGCCGAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACTAATTACTT  
GAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAA  
TAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTC  
AATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACC  
TCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCC  
AGAGAGTAAACTTGAATGGAATAACGACATTCAGAAGTTAATCATTGAACTCTGAACA  
CTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTT  
CAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCCAGCCCCAGGCTGCAGCCCATTG  
CAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTCTGGAAAGGAC

Sequence 431

GGTGGCGGCCGAGGTACCAAAACAACAGCCCTCCAAACAATGATGACCAGTGGAAAAACA  
ATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTGTGGCGTAAATG  
GTCCATCAGACTGGCAAAAATACACATCTGCCTTCCGGACTGAGAATAATGATGCTGACT  
ATCCCTGGCCTCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCCGCCGGGCAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATT  
GCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAAAAGCT  
ATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTGCT  
TGTGAGAAGAATGAGAATTTGGCTGCCAATTTCTTCTACAGCAGAACTTTGATGAAGAT  
TGA

Sequence 432

GCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTC  
TGCGTTGTTACCACTGCTTACTGCGTTCCAGCATTTCTTTCTCTTCTCGTTTCCTGT

A

GATTCGGCTAATGGTTTCCCCTGGCATTGACTTCGTGATGTGTAAGTGAAGTCTCTT  
CC

Table 1

TGAAGGGGGAAACGCATTCCAGAGCATTTGTTGCGGGCTCATGTAGGAATAGATCTTTGAC  
 TGCCCGGTAAATCCCGCGTACCTGCCCCG  
 Sequence 433  
 GNGGTGGCGGGCGCCCGGGCAGGTACAAATCTACCTCCCCACCAAATGTCCTTAGAGGGC  
 CAAAGATGGCCTTTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTGAGACAC  
 G  
 GTTTTCATTCTGTCACCCAGGCTGGAGTGCAGTTGTGCATTTCATGGCTCACCACAGCTTGA  
 ACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGTAGCTGGGACTACAGGGGC  
 ACACCATCAAGCCCCGGTAATTTTTGAAATTTTTATAGAGACAGGATTTTACCATGTT  
 T  
 CCCAGGCTGGTCTTGAATTCCTGGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTG  
 CTGGGATTACAGGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAG  
 CTCTTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGA  
 CTCCCTTTATCTTTTCCATAGCACCCCAAGC  
 Sequence 434  
 NCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTAGATATCCA  
 ATTTTCAGAATGTGCTCAACATTGGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGG  
 AG  
 TCTCCAGAAGAATTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTC  
 AAGGCACCATCATGTTTGTTAAATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCAC  
 C  
 CCCTATGAAAAATA'AAATCTTTTGAACAGGCTTTAAAAATTCTATTTGTTGGATTTTCA  
 TATTTTGGAGCTCTTAATTGATGTCATA'ATTTTCATCATATTTGTAAATACATCTTTG  
 A'ACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGG  
 AGAAGTAAATGATTTTTTAGATACTATTTTAA  
 Sequence 435  
 CCCGCGGTGGCGGCCGCGCCGGGCAGGACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAAC  
 GCCATCAGCTCGCTGCTTAAATTAACCACAGGTTCCATTATGGGTCGACTTGATGGGA  
 AAGTCATCATCCTGA  
 Sequence 436  
 GTGGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCCAGCCAAGCACTG  
 TCAGGAATCCTGGGAAGCACCTCCAAGTGA'CTGCAGATCTGGAATAATAAGTGNNGGGTA  
 GATCTGCCCATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAGGAATTGNGGTAGGG  
 ATCTTNTACTCATCCTTGGCACAATAAGAATGGCCAATGCCCTTTCTAGTTGTTTGGGGG  
 AAGGTCTTTGAAGGCACCATTTNCCCCCATCCCCCTGGGGGAAGAAATGGGGTCCCTAAG  
 GTAACGCCANGGTTTTTGGGGGTTNAATTTGCAAAAATCCCCTTTTNGNGGGNTANNA  
 CACAAATGGGCTNGGCAATTTNTTTNTTTNCCCCAATTNGNTCAAANGCCCAANAAAT  
 TTTTAAACCGGGTTGGGGGGGGGGCAAAATTTTGGGCCANNTTGGCAATTCNCNGGG  
 ANAAAAATTTCCCAANGGGGCCNGNNGTTCAANTTTCTTNTAACCCCGTTTNAACCT  
 TCNCCCCCNGTTTNTTTTTTGGANCCCTTAAAAAAAACCATTTTTTTGG  
 GG  
 Sequence 437  
 GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTTATTTTGCTT  
 T  
 ACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGGTTAACATAGCACATGGAGAT  
 AATCATCTGAAAGTTATAGGGCACTGCCACTGCTGAATCAAGAGCATGCCCAATATTTGA  
 GGTGGCTCTGATTTCTTGGCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCC  
 CG  
 Sequence 438  
 CGGGCAGGTACGCGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCC

Table 1

AGACATGGGACTGGAGGACGAGCAAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGA  
GGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAACAAGTGAGAGAGCAATGCGAGC  
AGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCCGTGTATCC  
TCTCCGATCACATACAGAAGAGGATTGCACCGGAGGGAGCTCTTTGGAATTCCTTGGCAT  
GCCGAGGGGACCCATTTGCGTGGGCCCCACAAACNTCTTTAAACAACCTTGGAATAAAAT  
GTGTGGGACTTTAAATTTACCCCCAANGTTCTTTCAANTNAATTCCTGGGGGGCATTCAAG  
AAATAATTTTCTCTTTTATTGGGGTTNTTTGGGGAATNNTAACCCCTTCGGGGCCCCG  
CT

TCTTAAGAAACCTTGNTGGGGGANTCCCCNCGGGNCTTGNCAAGGGAAATTTTGGAT  
ATTCTAAGGCCTTTAATTCNGATTACCCCGNTTCTAANCCTTNGAANGGGGGGGGGNC

Sequence 439

CGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCCTNT  
TTGATCCCATAACCATGCAGGGGCAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAA  
AGAAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGGAGGCCGAG  
GTGGGCAGATTACTTGAGGTCAGGAGTTCAAACCAACCTGGCCATCATGGTTGAAACCC  
CGCCCCACCAAAAATACAAAAAATTAGTGGGGCGTGGATGGTGTATGCCCTGTAATCCCA  
GTCTACTTTGGGAGGCTGAGGCCAGGGAGAAATCNGCTTTGAACCCAAGTAGGCAGNAGG  
GGTNGNCATGTTGAGCACGAGTATCGTTGCCCACTTGCACTCCAACCTGGGCCGACAGNA  
GTCAAGTACTCTGGGNNAANAAAAANATAAACCCAGGAAAAAAAAGNGAAGGNAAGGGAA  
GGGGGGAAAAAGAAA

Sequence 440

GGGGCGGCCGAGGTACGCGGGATGTCTAAAATATCTTGTAAGGAGTTAAATAAACAA  
ACCCAGTCAATTAATAATTTGACTGTTATTGAGAAAACCTCAATGAGGGAAATAATAAG  
ATCTATAAAGGTCTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGC  
TCACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGAGTCCAGGA  
GTTTAAGACCAGCCTGGGCAACATGGCAAAACCTGTCTCTACAAAAAATTAGCCAGGTG  
TGGTGGGACACGCCT

Sequence 441

GCGGTGGCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTTTAAAAATTCAATCTGGTT  
ACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAANAAGNNCCAGGTGAA  
ATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACCTCACTCATGAC  
TGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAA  
GTCTTCTGTCTGCCCCCGCGTACTGTTCTGCAAGGTTAAGGCAGGACTGGAACCTCCTCC  
ACAGCTTGCACATAGTTTTAGATTCAACACTAATCTTCCGAGTTTAAGATGTGCCTGG  
GCAGCATAAAGCTGTGCTTCTTTTGTCTTGCCTTTTAAAAATGATCTTTGCTAAATC  
C

AGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTTCTTGAAGAGAC  
TTGGTTTCAAGGACTGAATCATTTGGCAT

T

Sequence 442

TGGCGGCCCGCCCGGGCACGTACTTTTGCTGCTGAGGAATGGGAATCAAAAGAACGTAGT  
CTCCTGGTAACCACCTCAGATCTCTATTATTAGGCTAGATGTNGNCGNNGTACTCCCCCA  
GCTTCTTGCTCNNAACCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAAAAGGG  
AAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTAT  
GAAATATGCCTCACACTGTATAGCTCATTATAGGACGTCAGGTTTGTGAAAAAAGTGN  
GGCAAGACATGATTAATGAATCAGAATCCTGTTTCATTGGGTGACTTGGATAAAAGACTT  
TTTACTTTTANAAAAAANANTGTCAANAAANANGTTCCCTNGGCNCGGCTCTAAGAACT  
AGTGGGATCCCCCGGGGCTGCAGGGAAATCCGNATATTCAAAGCTTATCCGATACCCGG  
NNGAACCTCCGAGGGGGGGGGCCCCCGGNAN

Sequence 443

Table I

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAGGAATAGAGTG  
AGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATTCCTACTGCGTTAACTATT  
T  
TATTGGTTTCTAACTACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCAC  
A  
GCGTTGTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCG  
CGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACCTCCTCCTTCT  
CCCATTGTTCTATGAGGTGGGTGGGACTCCAAAACCCGTAGCTCCTGCCCTACTAGGC  
CACTCTACCCCAT

## Sequence 444

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTC  
GTAAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTNNTTTGNGCTTACCTTCT  
T  
GCTTAATGGAATTGTTATGGCTAAGCACATAAAGGCCAAAAAAGGAGTTTTTCAAACCC  
AGCAAATCAAGTGCTTGGATTCTGAAGTGCCAAAAGAAAAGTGCATTCCTCCTTAAGT  
AAAACCGAAATGAGTTTTCTTAGGTAAATGTATTCATCAAGCCCAGNATATAGAAAATAA  
AACCAGGTTANTGGTGNAGCCGTTTAGGTACCTGCATCATTTTCCAGGGAAAGATTCA  
AACCAAAAATACCAGTNCCCAGNCCAGGACTCACAATGTGTTGGANTAATATTATTATTA  
AAAGCAAAAGGAGGCCCNCCCCACCAAAGCCCAAGCAGCTGGGNTGGAAAATAATCAA  
GGCCTGGTCCCACNCCCGTNGGGTAATGCCCAAATTCGGGGGGAAAAATATACCTNCCC  
TTTGGNAAAAAACCTTGGGAAAGAAATTCTTACCCTTNGCCTTGGGGAAAAAAA

## Sequence 445

TCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTACTAAAATGACTGCATTCTTTGGATT  
CTTCAGTCTATGGTTCAAGTCACTAAAGATTCATTTTTGTTGAGTCCTTATGAGAAACA  
G  
NAGTATGAATCTTGACGGTTTCTGCCCGTCCTAATGGCAGAGCTCTCTGACTTGGGTGTA  
TGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGGTGAAGGTTCA  
ATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGAATCTTTGCTCGGTATATGCC  
A  
CCCAGTGGGTCAAGTCTGGGACCTAGGTGGTGAGCTATCCATAAGTTTATTCTCAAACC  
GTCTTTACTGCACTGTTTAGGGTCAGATACNATTATATACNACTTTGGGTGAGCT  
CA  
GGAGTTTATAAGCTTTATGGGCTTTGGTGTGTTTGAATTTATAAACAGGAGTTTATNGAAC  
T  
TTATGGGGTTTGCTTCCTCTTTCTGCCAGGTTTCCTTGGG

## Sequence 446

GGTGGCGGCCGAGGTACGCGGGGAGACACAACCTTCCTGGGCTTAGATATTTTCAAGATATC  
ACAATAAACTCTTAAAAATTTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCA  
GCACTTTGGGAGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACCCAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAATGCAAAACATTTGCTGGGCTTGGTGATGT  
GTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTAGAACCCATGAGG  
TGTAGGCTGCAGTGAGTCATGTTTGCACCACTGCAGTCCAGCCTGGGTGACAGTGTGTAT  
TAGTTTGTGTTTCATGCTGCTGATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTA  
ATTGGNCTTACAG

## Sequence 447

CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGAC  
TTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTGNGCTGGNCGA  
AAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCGTCTGATTCTAATAGNA  
GAGCCCGGGCTTCACCNCTTTTGGGCTTCGATATTAATAAGACCAAGCTGAGTCCTCCC  
TCCCAATTGGAAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATGT  
CT

Table 1

GGTGTCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAANAAAGAAAACATTA  
T  
CACNAAAANTAAGGTNCCCTGCCCCGNGGCNNGNCCGCTTNCTANGAACTTAGGTGGGAT  
CCNCCCCGGGNGCTGCAAGGGAAATTANGNATTATCCAAAGCCTTATTCGAATAACCCGTC  
CGAACCCCTCANAAGGGGGGNGGCCCGGTATACNCCAAGCTTTTTTGGTTCCCTTTTA  
AGTGGAGGGGTAAANTGGCCGCCGCTTGGGCGTAAAAATAATGGGACNAATAAGCCTGG  
TTTTCCCTGNGGNGGANAATTTGGTTNTCCCGCCTCACCAAATCCCACCACNAAACAT  
TACCGAAGCCCCGGGGGAGCCAATAAAAAGTTGGTANAAAGCCCTGGGG

Sequence 448

CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTTAGTGTCTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTAA  
G  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGGGC  
A  
GAGTCCATGTTGCCCAAAGTGGTCTGGAACCACACACCCAGCTAATTTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCCGTCTGGACTGCGCTTCTACGATCCAACGCATGCCTGG  
AGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG  
GTCACTGG

Sequence 449

CGGCGGCCGAGGTACAAAAGCAGGGGGCCAGCCCCAGCTGTTGGCTACATGAGTATTTA  
GAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAAT  
CAGCTTCTGGAGGAATGCATGTCACAGGCGGGACTTTTTCANAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAAACAGCCCAGGACTGCCGAGACTCTGGCCGCCCGAAGG  
AGCCTGCTTTGGTACCTGCCCGGGCGGCCGTGATCTCCTTGTGTTCAAGCAACTTCTTG  
CGGTAGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGCGTACCTGC  
CCG

Sequence 450

NGGTGGCGGCCGAGGTACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCT  
GGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGCTGGGATGTAGCCAGGA  
CTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGACCAGTCCTTGTGAAAGACAAGTCTGA  
ATGCTCCACTTTTTCAATTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCCGATG  
G  
ATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACG  
TGAGTAAACCTGAATCTTTGGAGTACCTGCCCC

Sequence 451

CGAGCGGCCCGCCCCGGGCNNGGTACAAATGCGTTTTANGAAATGTTAGTATAAGGCTGATCT  
GGACCCAAACTAAAACAACGTTAATCCTCTTCAAATCTAATTTAATATAGGGAATAAGAT  
TATTGAAAAAAATTTTTTCTGATTTCTTTTCTGAAAGTTTTTTGTAGAAACCA  
TGGTAAAAAGGGAAAAGAAACCTTTGACTGGCGGGGGCAGGGGGAATACAAAAAAAAT  
CCCTTGATTTTTAAATATACTTGAATATCAAACCTCAGAAAGAGTTATTTTTGTGAAAGA  
GGCAAAATTGGTCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTACTGAAATTATGG  
TC  
CAGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAGGAAACTCTG  
AGGTGGTGATTTTCTCCAAGGTCATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCT  
TCCACAGATCCCAATTGAATGAGCGCCATTTTGGATCTTTCTGAAAGAATTTAAAA

Sequence 452

GGGGCGGCCGCTAATGTNAGAAGTTAAGTNAGAACCTATATTGTACGAGGAACAAAAGCC  
AATCAGTGTCTTTTTGTCTTTTTTACATAAACTTTTACTACAAAAATTNATATATGGA  
TTTTGAATTTCCAGTCAAACCAAATTGTAAGTGTTCATTTGGTTCTATATTATGTAT

Table 1

ACATAATTTATCTATTATATATTTACATTAAATATATGCATATATAATGGATTTAATTT  
CCTTTNGGNACCCCATATNTAGAAGNNTCTTCATAANTTAATAAATAATCTAGGGCCAG  
CATTATGTTTGCTAGACCTGGNTTGGCTCAATACTTAAAGTTAAAGTTTCTGTCTTT  
T  
TTCTTGGACTTGAAACTGCCTANAGCGTCAGCCTCTCTGTTATTTNTNTCTATTTNCTT  
T  
TTCCCCATCAGTCTTTTAGCCACTTGAAGCCAAAATTCTTAGTTTCTGTCTAGTNGA  
T  
AAGAGTAAAAGGGGAAGGAG

## Sequence 453

ACGGATACCCTGTTCCGCCTTTCTCCCTTCGGGAAAGCCGTGGCGCNTTCTCATAGGCT  
CACGGCTGNAAGGTAATCTCAGNTTCCGGTGTAAGGTTCTGTTCCGCTCCAAGNCTGGGCC  
TGTTGTGGCACC GAACCCCCCGGTTTCAAGCNCCGAACCCGGCNTGCGGCCCTTATCCC  
GGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG

## Sequence 454

NGAAGGCGGACGCCCGGNCAGGTACGCGGGGACCTTTNACGGGCGGGGGGAGCTGAGGCT  
CCTGNCGNTATCTNTGATCCTTGACCCCTGGCAGGAAGNTGGTAGGGGGNACTNTAACGG  
GAGGNTNACATATTGCAGAAAAGAAACCACTTTGGNNGTAAGACTTGGAAGAAAGTA  
ACCGGTCACTTTGGAACAGGGGTGGGGAAGAAGCTGCCTCTCTTTGAACCTNTTCCN  
AGGGACCAANTCTAACCCAGGTGAGGNNAACNTGGTNGATGTAAAGCCGGTGGCTTTGG  
AGGACAGAATCATCTAAGTGGAANAAGATACACTAGGAAGGGNGCTGGGGGGANTACCA  
TCAAGAGGGAGGNGGGGATNACCTTCAGGCCGGGGGCTTNCGGNGGGGATGAAAGAAGGA  
ATGGGNCCGGACAGGTTTGNNGGTNGGAGGGTATGAAGGCTTGGCNAATGGTGGGGAAT  
TTTGGAACNTTCGGGCCGGGTTTTTAGAANCTNAGGGGGGANTCCCCCGGGGCTTNGGA  
AGGGGAAATTTTCGANTAATGCAAGGCTTAATANGAATTACNCGGGGGGACACTTCGGAG  
GGGGGGGG

## Sequence 455

CCCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGGAGGATCTCTGTCTTTTGTTCCTCA  
CCTGTCTGCCTGTCTCCTCTCCTTTCTGCTGGGGGACTGTCCAGAAGACATCATCGT  
CCAGTTCCTCTGCATTTGAACAGCTGTNCCCCACCCCTCAATACCGTTTAGAGCAGAAG  
CCAGCAAATACTAATCGGTACGGGACACGATAGAACTATTTTCGGCTTCATGGGCCACA  
CAGGNCTTCATTGCAAGCTCCTCAAATNTGCTGTTTGTAGCTAAGGAAAGAANCCATTAT  
ACCNTGTGTNAANCAAAAATGAAATATTGGCNTGTGTGCCAATAAAAAACCTTATTNACA  
AACATTAATNGAGTNGGGCNTGGATATGACTTCACNANTACTGGTTAGTTTGTACAACCC  
CCCTGGNTNCTAGNAGTTAAAAATCCCAAAAACNTTATTAGTCCCTCCC

## Sequence 456

CGGCCGAGNACAACATGACATTTTTAACCAATCCAATCTAAAAATGTTGCCAGAATCCAC  
CTGTGGCCCNAAATCGNGTNTTGGTTCTCTTTCTACTCCNCTGCAGANGACCAAACCTG  
TCCCGCTGCCACTTTCCTCACTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTCCAC  
TAAAAATGCCCCAGGAGAAATAGGCACCNNGCTGGCTTGCCAAAGGGTTTNGGGTTTTATT  
GCTTTCTGTTTTTCTTTTCCCCGACAGCACAAGAANGTAAAGGGGCAGTTAATTGGAC  
AGAGTGTTATTTTAAACATCTCTAATTGTAAATGNAATGTGGTTGGTTTGGGTTTCTA  
C  
TGCAATTGGTGNGAAGCCATGCCGNGGGGAAAGAAGAAACNTGACCCCAAGGNTAATTG  
AAAATNGGGAGNCCCCCTTC

## Sequence 457

NCGATATTACTGTGCGAGAGGTAAAGGATATAGTGGCTACGATTACNGCCTCTCT

## Sequence 458

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGACAAAACCTACAGACTTAGTCTGGTGA  
CTGGACTAATTACTTGAAGGATTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGA

Table 1

GCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGTTGTCTCTGC  
TGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGACCCAAGGCATAA  
GGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCG  
ACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACCGACATTCCAGAAGTTAATC  
ATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATC  
ATCTGGAAACCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAG

Sequence 459

GGCGGCCCGCCGGGCNGGTACGCGGGTCTGTNGCTGGTTAGTGAAGGCTTTGTAGCTGAGC  
AGTTTCTAAATAACACAGCCACTCAACTGACATACCATGGATTATGTGAACCTAACTTCAA  
CGGTTTCAGGAAGGAGAACTTTGTGTGTTCTTTCCGGAATAATCATTTTAGCACCATGACCA  
AATACAAGGGTCAACTGTATTTGTTGGTAACGGACCAGGGGTTTCTTACTGAAGAGAAAG  
TTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAAATTTCTGTGACTCAGAAATTC  
ATCTTCGACCTCCTTCAGATCCTGAACTGTATACAAAGGACAACAAGATCAGATAGATC  
AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGG  
AACAAATCCCGGAAGGAATCAAGTGATTTGGAAGTACAAAGAACT

Sequence 460

GGCGGCCCGGTACGAATGTGCAAATTAAGCATGGTAACTGATATTTACATAAATATCA  
AACCAACAATTAGTTTATACATTGTCAATGACCTTCTAAGATATGTCATGAGTGGATCC

A

AGAATATCTTTCCCCAATGGAGAAGGTATTCAGAGGCTAAATCCGACACTTTAAATG  
ACACACATCATAGGCTTTACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATT

TA

TGATCCCGCGTACCTGCCCCGGGCGGCGCTCGAATAGACTTCAGGGAAACAACACGTCCT  
GAAAGAAACATGATTCCTTCAAGCCACAAAGGATTTCTCATCAAGTGTTTCACCTCT  
GCATTAGATTTGGACACAAGAAGAGGAGAGCATTACTCAGGTAAAAATAGTTCTCTTAG  
TCTCTTCTCTAGTTACTAATTTTAATTTAAAAATACAATTAAGTATCTAGCTGATAA  
AAGTCACAAGACAGAAATAAGCTAAGTTCTCTTNTCTTAGGGAACGCTGGTGCAATT  
CACCA

Sequence 461

GAGTTTGAGAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAG  
ATGCTGTTTATCTATGGCCACTACAAACAAGCTACTGNGGGCGACNATAAAAAACAAGAAC  
GGCCCCGGGGATGTTGGACNTCACGGGGCAANGGCCAAGANTTGGANGCCTGGGAANGAG  
CTGAAAGGGACTTCCAAGGAAAGNANGCCATGGAAAAGGCTNTACATCAACCAAGTATG  
NAAGAAGCCTAAAAGAAAAAAATACNNGGGAATAATGAGAGCACNTGGATTTTGGGNTAC  
NTGTGCCCCATGTGTTTTATTCTAACTGGAGNACAATTGCCTNGNNTTTTTTCTAAN

N

ACCCGNTGGAATGGTTGGGGAAATCTCTGGGGAAAAATAANCCAGNTAAACCAGCTACC  
TCAAGGGCNTGCTCACCCATACCG

Sequence 462

AGCCCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGATGTG  
TGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTACAATACAGGTCAGA  
GACAATGGCTTATAAAGGTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACC  
TTTCTGCACACTCCAGACAACTTCCAGACAAGCTCCTTTGTGCCTCTACGTGGAGAGG  
GCGTGGAAAGTTATCACATTAAGATGGAGGATTTAAAAAAGGAGGAGGAGGAGGAGGAGG  
AAAAAGTACCTGCCCC

Sequence 463

GCGATNCCCCCTGGGAAGCTCCCTCGTGCGCTCNTCCTGNNCCGACCCTGCCGCTTACCC  
GGATACCTGTCCGCCTATTCTCCCTTCGGGAAAGCCGTGGGCGCTTCTTCATAAGCCTC  
ACCGCTGTAGGNATCCTCAAGNTCGGGTGTAAAGNNCGTTGCTCCAAGGCNNGGGGCTGG  
NGNGCACNGAACCCCCCGNNCAAGACCCGACCCGGTGGCGCCTTAAACCCGGAAAACT



Table 1

AATNCGNCNTGGAGGTCCCAAACCCCGGGGNAGGACACCGACTTATCCGGCCACCTGGGC  
AGGCAGCCAACCTGGGGTAAACAAGGGATTAAGCAG

Sequence 464

CCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTTT  
T

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACNGCNGCCNCCNCCATGAAAGAGGG  
GCCNCCACATNTTTATTGCATACNCAGGGGAATAACTTATTNTACAANGAACNCTCCTCC  
ATTNGGAGACCATGCCCACTTACAGAATGCANCCGNAATGCGGTAAATNTATTACAGA  
GGNTGGGGNGCAAGATGAGANAAGTTTCANCCCCAGGAATTTGAAGNGAGAATGATCTAC  
AAATTNTCCTGACAAGGNGCAACCGGGCTTNGNGCTAGNGNGGNGCTGAAANAATTCCTGGC  
AAANCGTAGGGGGAGATTAAATCTCGGAATTGACAGCAAGTTTGGGGACAGNGCAAAAAN  
AGAGGGGTGACCCTGTGAAATTTGGTGCCTGGGGGAACCTCTTGANGCCCCAATGNGGGG  
GCACCNCTTNGAGANGATNNGGNTAAATTTANGGGGGGATNTTTAACCCTNTCCNNCC  
CCAACCAAAAAAGGG

Sequence 465

GGCGGCCGAACGCAGAGAAGGTNGANGATTGCACCATGCCGATTCTGCGAACTGTGAATT  
CTACCCGGGAAACTCCTCCCAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAAC  
CAGACATAAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAAACTCCAC  
CTGCTACTTCNAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAG  
AAAATAAGTCTTCTGAGGAAACCAAAAAGGATGAGAAAGATCAGTCTAAAGGAANAAAAN  
TTTTATNNNATTAAGTACCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGCT

Sequence 466

TGGCGGCCCGAGGTACGCGGGGAGGTGCGTGCGCGCTTCTCCCGAGGTGGAACGGGCGGC  
AGTCAAGCGCCGGCGTTCTCTGCCGTCACCCTTTCCTTGC

Sequence 467

GCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGAGACAG  
AG

TCTTGCTCCATCACCCATGCTAGAGTGCAGTGGAGTGATCTCGGCTCACTGCAACTTCCG  
CCTTCTGGGTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAGGCAC  
ATGCCACCACGCCCAACTAATTTGTATTTTAATANAGACAGGGTTTGACCATGTTAG  
C  
CAGGCTGGTCTTGAACCTTCCATCAGGNGATCTGCCCTCCTCAGCCTCCCAAGTGCTGAGA  
TTACAGGCATGAGCCACCGCGCCTGGCTGATTGNGTTCTTTCTCACAGATTTTGTTT  
CT  
GTTTTTGTTTTCTGAACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAAGTAA  
GT

CACAAGTAGCGCTGTGACTGGGTCTGCCCGGTAGGAAGGTAAGCAGAAGTGAATGTGTA  
TCACTTCTAATGGTGTGGGNTCCCNAAACCTTCTAAAGGGTATGTTCCCCCTTTT  
TT  
T

Sequence 468

TTGGAGCTCCCCGCGGTGGCGNTCGGTGTGCTGNGCTCAGCTGCCTTCCNANGGAGGAN  
NGATCGGCNAGTGCTCTGACTGCGTGGCCGACAANNGCTGNCGNAGAAAGAAATNAAAN  
CCTGAAACATGACAGNGAGTGNTGNAAAGTGGAATGCCTTCTAAAGTTNATNAANG  
TNAANTCAAANNACATTTTTTTTTCAAAAANATAAATTTAGAACTAANTGNACCTT

Sequence 469

CGGAGGAGAATGGTATCACTCAGGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGG  
TAGGACATGACCCTGCCAAGGAGTTCACAAACCACTGGTGGAAATGAGCTCTTCAACAAGA  
CTGCGGCCAACTTGGTAGTGAAACTGGGCAGGATGGAGTACCTTCAGGATTGGCCTGTT  
ATCTTCTTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGTGGACATTTCAACACCAT  
C

Table 1

AAGTGCATTTAGGTGACATGTTTAAGTTAACTTGACTTCCTTGAATGACCTAGTTAGTA

A

ACTAGTCACTAGTAATTCGGTCACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATAT

TCAAATGCCATGTTACCATCTAAACC

Sequence 470

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTATTGTCTACCTCTCTGGACTTG  
CTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCACGACAGAAGCCGAACCGGAAG  
TTGACAACCTTCTGGTTTCAGATGCCACCCAGACGGTTTCCAGTCTGTCCTGGACAGCT  
GATGAAGGGGTCTTCGACAATTTTGTCTCAAATCAGAGATACCAAAAAGCAGTCTGAG  
CCACTGGAAATAACCCCTACTTGCCCCCGAACGTACCTGCCCCG

Sequence 471

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTGGGAAGA

CA

CAAAGATTCAGACCACAGCCTACAGGGAGAGAGGATTTCTGAGGATGGTGGTGCAGTGTG  
AGTCCACGCAGGCCTCCTGGGCATAGGATGGAGCAATTCTATCTCACCTCAGGCCTAGCA  
CAAAGGGCTTCAGTAAACCACTGGAGTTTCTTCATTAGGATTCATCCCAGGATATCCA  
GAGGACAAGAGGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGCTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGCGTACCTGCCC

G

Sequence 472

GCCGGGCAGGTACTATGGGTGTAGTGNTACTATTACAGTTAATNCNTCCTTTGTAGTGCG  
CTGNTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGC

Sequence 473

CAAATAATTATAATGTATTAACCTACTGCCTGTCTTTATAGGGGAAAAAATAAC

C

TNTTTTATTTTAAAGTTATAAGGGGGNTTACCTTNTAGNGTGCTTGGATGACAGGGAA

AT

TAGCCTACCCCATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGNCCAAGTGTC  
TTNACTANTTAAGGCAAGATCATGCTTNTGTCAAGTTNACCCANTGNTTGAATACCGTG  
NACACCGATCGTGGCTCGNCTACAGCCTCCATGTNCCCAGGCTTCGAGCAGGT

Sequence 474

GGCGGCCGCCCCGGGCAGGTACGCGGGGGAGCTGAGCCGGTGGGTGAAGCGGCGGCCACGG  
CATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTC  
TTATGTGCCTGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGACC  
GTGTACTTCTAAAATTGCATTTATGTTTTGTAGGCTTGGAGCTTCTTGATTATGGGTT

T

TTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCATAAACATTATGGATGCTTTTT  
CTGTTTGTACCTCGGCCGCTCTAAACTAAGTGGATCCCCCNGGCTTGCAGGAATTTTCA  
TATTAAAGCNTTATCGATACCGGCCAACTCGAAGGGGGGGGNNCCCGGGACCCANCTTTT  
GGT

Sequence 475

TTGANGCCCTCCCCGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGG  
AAGTCCTTTTAGTGAAATAGATGAGAGGTTTTAGATCTGCACAAACCTTTTTTTCATGGAAG  
TCCAACTTTGCTCCTGGGTAGTTTAAAGGACGTAGTCCCATGTACCT

Sequence 476

NGGCTACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTACGAGGGCCACC  
ACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCACCTGGATTCCCTTT  
TC

CAGTTTCTTATGTCCACAAGTCACTGTGCACAGATAAGAGTGTTTCGTTCTCAAACCTCAC  
AGGGCTCAGGGTCATGCGTGGAAATTGGGTCCCCTTCACTCCTCACCTTTCCCCGCTTCA  
GAGGGCTGTCTATCTGGGTTCTCCAGGGAGAAAGATGGGAATTACAGCCCATGGACAC

Table 1

TACCATGTCAACAATGACTGAAGTCTTCCAATCTGAGCCAGGCAAATTCNNGGNGGGTCC  
AGGGGGGAGAATCTCAAACAGNTAAATGGGTTTTCTCTTGAACAAATTAATTTCCCA  
CCTCTTTTTNTTGNTTTTTCCCC

Sequence 477

NGGNGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAA

A

TATTTATTAATGATTTTTTAAGTTTGAACTTTATTGGAAGGAGTCCCTCTAATTCAC

ACTTTCATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTTTT

A

AAAACCACATAGTAGCACAGTTGAAAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAA

AGGNGGCATCTTAGGGNNGGGTCCTAAGGAAACCCAAATTACCAGGTCTCATGGGTTTTCC

TTTTGGGTTCAAGGATTAGAAAGGAGTCAGNGGTTACCCACCTACCCTGGTTTTTAGGA

GGGGTAGGAATATTGAAACCTTTCCTACTTAGTCCANCAGGTTTACCTGGTTCAAGGGT

GGGNCCCCAACCAAGGTTCTTTTTTATCTTCAAGCCCCCATTCTTTGGCCCTCTT

AA

GNGGGGGGTGG

Sequence 478

TCCCCGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCCATTCCCCTCCCTTGT

TCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTGTATAGAAGTAAAT

GCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCC

Sequence 479

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGCCGCCA

TCAGNGTAAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAATTTCTAACTTGGGT

T

NAATATTTGTAGNTGAAGTATCTGCTTTCATTTTTTTCACGTTATAAATAAAAATACTAT

GCTGGNCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAATGTGGGT

GGATCATGAGGTNAGGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACCCCGTCTCTAG

TAAAGATAAACAAAAATTAGCTGGGC

Sequence 480

GCGGTGGCGGCCGCCCGGNCAGGTACAGATGCAAACGGAGGTGTAGACTGNGCAGCTGCC

AAAGTGGTGACAAGCAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACCTG

AATGTGCCGATGAGGCCTGGCATTCTTGTCAGAGACAGAGTAAGGAAGTGTGGCCACA

CCCTTAGAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAACGTAC

CTN

Sequence 481

ATGTTTTGTGGCCAAGGTGAGGGCTGCAAGTGTTTTCTAAGGGTTGAAACATCANAATAA

AGGTATGGTGGCAAGTCCTCTTCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCT

AGGTGGTAGTTACAAGGGTATTTTATTTGCTTATAATAATCACTAACTATGTTATT

TGAGTNAGATTTTTATGTNGTGNGNCNTTTAATTTACACAAAATTAANCAAAAAGNA

A

CNAAANGTTGCNCTCNGNCTCGGNTTNTAAGTAAACCTAAGGTGGGA

Sequence 482

CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAATTTTGAGCTA

GTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGTGTAGCCAGAATGCCGCAAAA

CTTCCATGCCTAAGCGAACTGTTGAGAGTACGTTTCGATTTCTGACTGTGTTAGCCTGGA

AGTGCTTGTCCCAACCTTGTTTCTGAGCATGAACGCCCGCAAGCCAACATGTTAGTTGAA

GCATCAGGGCGATTAGCAGCATGATATCAAACGCTCTGAGCTGCTCGTTCCGGCTATGGC

GTAGGCCTAGTCCGTAGGCAGGGACTTTTCAAGTCTCGGAAGGTTTCTTCAATCTGCATT

CGCTTCGAA

Sequence 483

Table 1

GCGGTGGCGGCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTGA  
AGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCNGGGCAC  
GGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATCA  
TCTTAGGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAACCCCATCCCTACTAAA  
AATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAATCCCAGCTACTTGGAAGGCCT  
CGGCAGGAGAATCACTTGAACCCGGGAGGCANAAGGNTTGTGGTGAGCCAAAATTGCGCC  
ATTGCACTCCAGCCTGGGCAACAAGAAGCCGAAATTTCTGTCTCAAANAATAANAACAA  
AAAAATAAGTACCTGCCCCGACCGGCCCGCTTCTANAAGTAGTGGGATCCCCCGGGCC  
TGCAGGGAATTTTCGATATTCAAGCTTATCGGATTCCGTNCGACCTTCGANGGGGGGGGCC  
CGGNTCCCCAAGCTTTTTGGTTC

Sequence 484

GATGTGAACAAATGTGTCATTGCTCTCCAAGAGAAAGGATGTGGATGGCCTGGACCGCAC  
AGCTGGNGCAATTCGAGGCCGGGCAGCCCGGGTCATTACGTAGTCACCTCAGAGATGGA  
CATCGAGCGGCCGCCCGGGCAGGTCAAGCTTTATTGGGCAACAGCAACGAGCCACGCT  
GGCAACAATGAAAGTAGAGTCGCTCAGAAACACGAAAGATCATATGTGTGTCATCACAG  
CATCGAGAATTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCNNAGCT  
CCCCTCTAATCAAAAAACGCTTGTCTGGNGAAAAATTTGCATGNGGGNTTACAGAGAGA  
GAGATCAACCAGGTGAGGAAATCACAAGACTCTTACATGAGTTTACAGTTAACCCCCCTG  
CACCAAAAAATAAATTAGCCATAATTTGGTT

Sequence 485

TCCCGNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGGAGGATACT  
T

TCATTTTTATTTTATATCGTGAGGTATTGTTTGGATTGTTACAATGAACTTGCATTTCTT  
TTGTAATGAAGAAAATAATACAGAGGAAATAACAACAATAACCTTTGGCCTGGGATTA  
TCATCCGGGCTGGGAAATTCATGTTGGGATGGCAAGGTTTTATTGATAACAAGGTTATT  
TTTTGGGGTTTATTATTGCAAAAAAAATTGTTTCATTGGAATTGCCCTCCTATTGG  
G

CTTGGGCACCTTGCCCTAAGGGCCACTTTTCACCAAGGGTATTTTCATCCCTTAAATCCC  
TCACCAAAACCAGGCCCTATTGGAAGGGGTAAATCAATTGGGGTCCCCAAGGTTTTACCA  
GGAAAGCCCTTTTGGGGGGNGGGGGGAAGAATTATTTGGGCTTTGGGATTATTACTTTCT  
AATTTTGGCCACCACCATTTTTTTTTGGTTGGGGCAAAGGACCGGTTCCGGTAATCCGG  
GCTTGGGTGGATTTACCTTGGGTCAAAGGAAGCTTCTCATTGGGGCCAAGGGAGGTTT  
CCCTAATTTGGTTGGCTTGNAAAGGGAATTTCAAATAATTCAAAAAATACTTAAGAAA  
TTTTTNCCCCCA

Sequence 486

TGGCGGCCCGCCCGGGCAGGTACGCGGGAGTGTGGATNGAACAGAAAATTGGAATCATAG  
TCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTGTAAGTGGGTTTCT

G

CTTAAAAATTTCAATTCTCGTGGTAACAACCGCAGAGTAGAAGGAGAGGGTGACTTTACC  
GAACTGACAGCCATTGGGGAGGCAGATGCNNGTGTGGAGGTGTGGGCTGAAGGTAGNNGA  
CTGTTTGATTTTAAAAAGTGTGACTGTCAAGNTTGTATCTGTTGCTTTINTCAATGATT

C

AANGNGATACAAAATGGGGCTTCTNTCANTCATTTAAAAAGGAAAAACGCCGACCATCCT  
TTCTAAGGATTCTCTGTGGGAAAAATGGACTGTCAATTAATGGCGGGGTTTT

Sequence 487

CCCCAGGGTTCAAGTCTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCCTAGCTTAGA  
GNCTCCCTCAATTCCTTGGCCACCACCCCCCACTCTGTGCCTGACCTTGAGGAGTCTT  
TGTGTGATTGCTGTGAANTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGA  
AA

CCTGGAATTGTGGGGGCAATCTATTAATAAGCTGCCTTAAAGTTCAGTAAGTACCTTA

Table 1

GGGAGGGCCTGGGGGGAAAAGGGTTAGAATTTGTATTCAGGGGTTTTTTGGTGTACCC  
TGCCCGGGGCGCGCCCGCTCTAAGAACTAGTGGGATCNCNCNCGGGCTGCAGGGAATTCG  
ATNTCNAAGGCTTAATCGATACCCGTTCCGACCTCGAAGGGGGGGGGCCCGGTACCCCAA  
NCTTTTGGTTCGCCCTTTTAAGTGGAGGGGTTA

Sequence 488

CNCGNGGTGGCGGCCGAGGNACTTTGTTTTTTTTNTTTTTTTGAGGGTGGCTTTAT  
TT

TCAATATTTGTCTTATTAATATTTTTCTTATTTTATAATGCAATTACAACNGNTTATAGGA  
GACAAAACAATATAAACAAAAGAATGTTAAATAGGTTTTTTTTAAAAATAAGCTTGGTT  
GGCTTTGCAANGGAAAGTCCATAATAANTCTTATTCCCCCCAAATATTAAGTTTTATT  
A

CTTTNGCCACNTAGAGACCCAAAAAATAGCTTATTGGGGAAAAAATTANGTTATTTAAA  
AATANGCCTTAAAAACCACCAAGGAAAAACCCTTACCAGGGCNTATTAATAAATTAACCA  
ATTAATAAATTACCAAGGGTTTAAACTTTTTAAATGGGNGGGATNGGCCTTTAAAAACC  
AAA

Sequence 489

NGCCGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCCGTGAA  
AGCTGGCTGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATCTTNACATTCCTGGAA  
CCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGGTAAATGAAGAGCCTTTCGAAAAAAC  
TTTCTTGCCCTCAAAGTATTTACCATAAATTCTCTTTAAAGTGGACATGGTTCAAGAA  
T

CAAGNGGGCTCAAGAAGTTTNGAAAGTAAAGNAGGTCATTTTCTTAAGTTTCAAGCTT  
TTCAAGTTTNGTATAACTTTTTCAAGCCCTCTGGCCCTTTTTCAAAAAGAATTTTCTT  
G

GGAGGAGGTCCAAATTTTTTTCTTTTNGTTTNCCTAACNTTCTTTTTTT

Sequence 490

NCCGCGGTGGCGGCCGAGGTACCTGATTTTATTTCNAGTTTTCATCCGAATCCACTGGGG  
AATGGGACGATTTTGCTTTTGTCTTGCCAGGAATCGCTTAATCCTGAAAGTCTTG  
TG

AGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGA  
GGCCCCGCGTCCTGCCCCG

Sequence 491

ACTCCCGCGGTGGCGGCCGCGCCGGGCAGGTACAAAAAATAAAAAGGAGGCTGGTGGGAG  
AACTGCTTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCA  
GGCCTGGGCGATGGAGCGAACTGTCTCTTAAAAAATGGCAGGAGTTGGGGAGCTGGGC  
AGGTGCAGTGGCTCATGTCTGTAATNCCAATACCTCTGGGAGGCCCAGATGGGAGGGGATC  
ACTTTGAGCCCCAGGAGTTTGAGACCNGCCCTGGGTTACACAGGGAGACCCCCGCTNAAA  
ATTTTAAAAAANTAGTCATTNCTTAGTGGGTGCNTTCCCTGTNGTNCCCCACTTCTTT  
G

GANGGTTTNNGGNCCAAGGATTTCTTTTNGCCCCTGGANGGACAAAGGCTTTCANTGAGC  
CTTTTNNATTTTACCCCTTGCTTTTAAACCTTGGCCATATNAATTAGAANCCCTTN  
T

CTTTTAAAAAATAAATAAANGGGGGGNGGGGCNCNCCCCCTNTTTTTTTTTGGCCCA  
ANCNCCCCNNATTTTTTTTTT

N

Sequence 492

TCCCGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTTTCTGCAA  
CATTAGTATGGGTCAAAAAAGAAGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGG  
AGGCTGAGGCAGGTGTATCACAAGGTCAGGAGTTCGAGACCAGCCTGACCAATATGGTGA  
AAACCCATCTCTACTAAAAAACACAAAACCTTAGCCAGGCATGGTGGTGCACGCCTGTA  
ATCCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTG

Table 1

CAGTGAGCCCCGAGATCACGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACTCCATCT  
CCCAAAAAACAAAAGAAATGACTTTAGACAAATGGCTTGAATGAAATTACAAAGAGGAGGT  
GCATTAATAAATCCCAGCAGTAAANCTTTTGAAGAATTAATGACAGGCTAAAAATAA  
ATAATAAATGTTCTTTTT

## Sequence 493

CCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCT  
TTTTGGAAGTTTGTGGCGGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATC  
TCTAGCAGCAGAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTCATCTAACACGTGCTTTTG  
A

AGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCTATTGAGATATAGAAATAAT  
ACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGCCATTATAGATAANCTAGA  
AAAGGTGNCTGTGAGAGGAGGAGATAAAAACTAA

## Sequence 494

CGCGGTGGCGGCCGAGGTACTCATGGTTGCTGTAAATTAAGGCAGCCGTTCTGCAGGGTT  
TTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGTGGATTTTCAGTCCCC  
GC

GTACCTGCCCCGGGCGGTTTCG

## Sequence 495

AGATCTCAAGATCTGGACTTCTGTTGAAAAATTTCCCGTGAGGNTNACTTATGTCTG  
TA  
AAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGAT  
TATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAACTTAATTTAAAAATG  
AGAGAAGAGTATGACAAAATTCAGATTGCTGNCTTGATGGAAGAAAAGTTCCGAGGTGAT  
NCTGNNTTGGGCCAANCTAATAAAAAATTTTCAAGAATNNCCCCCNCTNGNAANCNCC  
CNGNCTTGAAANCNTTTTAAAAAAGAAANGGTTTAAANNGTAAAGGGGNCCCC  
CNCCCTTTTTTAAAAAAGNNGAAAAAAGGGGNGGGGGGG  
T

## Sequence 496

CGCGGTGGCGGGCCGCGGGCAGGTACCGTGAAAAGGGCACTTCTCCTTGAGAAGGCCT  
GACAGTGTCTTAATGTCTGCTGGCGCATGGTGAAAATTTAGGGCAACAGTAAAGCAC  
CCTCTTTAATTTCCCTTCTCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCCTC

AT

TTGCATAATAGGCAGTTTCAATAACTGGGGAC

## Sequence 497

CCGCGGGTGGGGCCGCGCGGAGGGTACNNNGGAGGCCTCATAANGGCNGGGNATCNTCGAG  
GNTGGTATNGNACTGNTNANAAAGCCNNCATGGTGGTANCNCACCAAAANCTCACAAGAA  
CAATTGNNGCNGCGAAACAGGCAACAGANTCTGNCATTATATAATAAGGGCGTGGTACGG  
TTGGGGAACCCCGNANGANTCNNTATGGTCCTTGNTTNGCAAGCNNTGCATTTTAAATCA  
GACGACCGTNAATTTGTTANCCCCAANCCTTNTTANAATAAATCGGCAATCGCGCAATAT  
CTCATCATTNANCNACTGTGGACGACTTGACAATCTTAGTGGCTTNATGGACTTATTGCA  
AAACTCGAGAAAGAACAAACCTAGGGGTGCGCCCTGACCTTCGGAATAATTCGTAAGCTA  
TATGTGAGAACTAGCAACAGGGCGTTTCATTTATGNGNAANGGGACGCGAANTGGANGA  
TAATTATGTAANAAGNNGGCCCTACGANTTTGGCCCCCTAGACGCCAGGGAAACCGCGG  
GGCNCCATGCATNACNANACTTANGGNAGGGGTANTTCTCCNCACACNCNTNTTTTCG  
ATTTGGANAATANGCTGGGAATNAATCCTACATGACCTGTCAATTTTCGGAGTTATCGCNG  
GCCGGTACNGNNCCCCCCCCGGGGGGGGGGGGGGNCCCCCGGGNTTANCCCCCAAGCT  
TTTTTTGGTTTCCCCCTTTTINAGGTTGGAAGGGGGGGGTTTNAATTTTGNCCGGCC  
GC

CTTTTGGGGCCCGGTAAAT

Table 1

## Sequence 498

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGGGCCTTCCACTTCAGCTGACT  
GAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACCCAGGCCTCCTGACCCATGGTATC  
TACGATGAGATCC

## Sequence 499

GTGGCGGCCGAGGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTT  
CACTGAAATTTCACTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATACT  
CATTTTCCCATCACTGGACTTCCAGGTTGTTTTCAATTTTCACTGTTACAAACAAGGT  
G  
GCAACATTTATCTACAAACCTCTTGGATATTACACCGTAGGNAAGCTTTCTGGGTTATT  
T  
CCACCTAGTGAAACCTTGCTCAAGTTTGAAGGGGGTANTGTTGGGATNCTTTCATCTT  
TT  
TAATTAATAATTATTTACCAACCATGTTGAAAAAGCCCCGACCAATGGTCAAGGGACTGNG  
CAAAGGAGGTGCCACCAATGTTGAATGGGGGNTGGTGGGAAATGGGCAANGCTTCACTG  
NTANACAAGGGTGGCTTGGGGGGACCTCAAGTTTGGGGGTCTTTGGGAGNAAAGCCAC  
TTTAGNTTATTAGCCAAGGAANTGTTCTCATAAAAAATTGGGTNTTCTTGATTAGG  
A  
AGACCAANGAAGTTAGGTTNGGGGGGAAAT

## Sequence 500

CGAGCCGGGAGCCATTNANAGTTGTTAAAGCCTNNGGGGTGCCCTAAATGAGTGAGCCT  
AACCTCACATTTAATTTGCCGTTTGC GCCTCAACTTGC GCCCGCTTTTCCAGNTCGGGGA  
AAAACCTTGTCNTTGCNCAGCTTGCAATTAATGGAATCGGNCCCAACNGCCGCCGGGGG  
GAGGAGNGCTGGATTTTGCCGTTATTTGGGGCGGCTTNTTCCCGGCTNTCCTTCCGCTT  
CAACTTGNACTT

## Sequence 501

ACATACTAGC NNGGTAGCATAAAAGNTGTTAAAGCCTGGGGGTGCCTAATGAGTGAGC  
TTAACTTCACAATTAATTGCCGNTTGCTGCTCCACCTGCACCTGCTTTNCCAAGAT  
CT  
GGGGANAACACNTGNCGTGCCCAGGCCTGNNATTAAATGCAATTCNANNNCAACCGCCGC  
NGGTGGGAGNAGGGACGGTNATTGCCGTTAATATGGGGGCCGCTACTTTTTCCCGC

## Sequence 502

NACAAACATTACGAGCCGGGTAGTCATAANAGCTGTAAAGCCTGGGGGTGCCNTAATGAG

## Sequence 503

GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTT  
TCTCAGAAAAGGATGCGCCTCACTTAGCAAGGCTGGGCAGGATGTGGNTTNTGNATCTG  
CCCACAGACGGGGTGGTTCTAGACGGCCGCTCTNNAAC

## Sequence 504

ACATACTTANCCCGGNAGCATTAAAGTGTAAGCTCTGGGNNTGCCTAATGAGGTGAGCT  
AACTCACATTAATTTGCGTTGCTGCTCACTGCCCGCTTTCAGTCGGGAAAACNCTTGG  
TCNGTGCCANGCATGCATNTAAATGNANATCGGCCCAA

## Sequence 505

CACAACATACGAGCCCGGGAGCATAAAGTGATAAGCNCTGGGGTGCCTAAN

## Sequence 506

CGGTGGCGGCCCGCCGGGCAGGTACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGG  
GAGTCTGCGCTAGGCCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACTCATGTTTGCA  
CCCGCGGTTGATGCGTGCTTTTCGCAAGAACAGACTTTCGGCTATGGAAGTCCCATGT  
TGATGGATCCTGAGGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTTCCGA  
ATTATTGAGAAAAATCAAANACTCCCNAGTTTGTGACCTGNGAAGGAATATTTGAG  
GGACNCCANGCCCTTTGGGGNAAGGANTCCTTGACTCTATCTTTCAAAGGAATGNAA

Table 1

ATTCCTAGTAACAGGCCCTNTAAAGACTNAANACCAAACCTTTGGACTTCTTGCTTGGATT  
TTCNTTTTTATTCCCTTTTTTTTTTATTNTTTTTTAAAAATAAANAATAATTTAATT  
TTAAACTTGGNACCTTTTCCTTAAATAATATTACCTTTCTNATTCAAAGGTGGGAAAA  
N

GGGAAAATTTCC

Sequence 507

GGCGGCGCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATNCCATA  
TTTAGGTTAGATNGAGAAGTGTGTATGTGTGTGTGTGTGTGTGTGCTCNGCACAGTNGA  
TGAAGTGTAAACATAAATTGAAGATATTGGAAAANTACATNAANTTATGGACCAACATGA  
CAATTTTCATTAGGACTTCCTATTANAGAGTATCAGTTTNACANNTTGGGTATTAGNT  
A

CTAGTATNAAACATTTTCACTACTTGCCTGATTTTCTGGTGGANTAAAAGCAANGGCTT  
NTACAAGTTNTAAGCATGTCTTNTANGNCTATGCTTTGGAATACCAGCTAATAACCAAT  
C

AACAAGNCCAGNAGCCTTAANGTGGTATTTTTTTGGTTGACCCTAAAAAACATGGAACCT  
NAANGGGTTTCTNCAAAAANTTGCCTTAACCAAATGGAAANTAGGTGGGGGGAAG

Sequence 508

TATCCGCTTCACAATTCCACACAACNATACGAAGCNCNGTTAGCATTAAAGTGTAAANAGC  
CCTGGGGTTGCCCTAATGAGTTGAGGCTAACCTCACATTAATTTGCNTTTGCCGCTTAC  
NTGGCCCCGCATTTTCCAGTTCGGGGGAAAACCNATGATCGTTGGCNCAGGCNTGCCATTT  
ANATNGGAATTCGNGCCCAACCNCCGGTTGTAGGAGGNCGGGTTTTGCGGNAATTTG  
GGNGCGCTTCTTTCCCGCTT

Sequence 509

CCNANGTAACTCCCACCACCACCNCATGGTCTCTTTCATATNNCTCAANNNTCAACNTG  
NTCCTGNGGCTTCATAATTNTCCTNTTNCATCTTTTTCACTTCNNANGCAAACACCGC  
CT

CNNCTNANGCTNTNNANTCAATNCANTTNNCCTTAATNNAATCACAAANTNTCCTCC  
AT

TACNCANNAANNTNTNNNCATTCANNNCCACAATCCNGGTNNTGGTCTNNCTNNNCCACA  
TCANCAAAAATCACATCCACCATTNCNATCCCNCTACCTTCCCNNNCCNCCCTCTAAA  
ACTANTNNATCCCCNNNCTNCAANAATTNATATCAANCTTATCNATACCCTCNACC  
TC

NAANNNNNNCCNTACCCAACCTTTTNTTCCCTT

Sequence 510

CGGCCGCCCGGGCAGGTACTCTCTGAGCCAAGGACATTCTCATTAAACAGTTTAAANAG  
GCTGGGNGCNGGATCGGGAAAAAAGAAATATACCCTGGCAGCCGCCTGCCCGGCCGGA  
AAGCGGANAGGGACNCTAANATCAGCAAATTCNCCAGTTTGGATCCTTGTCTTTTCCGC  
CCTTTTCCCCCATTAATCCANAACCCGTCACATGATAATTAANAAAANGGTTTCAGTTC  
CTCCTCCTCAAACCACTTCNGTAAGAGGATCCCCNCNTACCTCNGCCCCTCTAAAACT  
AGTGGATCCCCCGGCCTGCANGAATTCNATATCAACCTTATCCATACCNTCACCTCA  
AGGGGGGGCCCCGGTACCCAACCTTTTTTGTTC

Sequence 511

GGGGGAGGGCAGNAAANCAAACCACAGCNCACNGCANGGGCACACANCACAATCCCCAGC  
AAAAAATAAATNNNTNTNCCAAACANAAAGAGCCTGGCCAGGGGGCCCANACGGGCC  
NNAAAGCCCGGAACCAATTTTTNTGGGGCGGGGGCCCCCAAAGGGCGGGAAAAACA  
GCCACGACCCACGGCNCAGCNCAGAGAGCNGGGGAGACGCNGCCAAAAGCAAA  
ACGGCGGCCAAANCNAGGGAGCAANNNGGGGCGAAAAGNNNAACGGAACCANNANGAAA  
NAAAANCAAAAANAAACCGGACCANA

Sequence 512

AGCANACCGCGGNGGCGTTTGCGGGAGAAACNGNGGACCCCCCGGGCTGCAGGAANNCG



Table 1

ANANNCNATTTAGGGNGACNNAACCCC

Sequence 513

NAGNCACCGACGAGACCAGATTANACNTNGGGGGCGNAAAACCCCAGCCCCCCCCGGNC  
ACAGCCCNAAGGCCAACCCCTTTTGGAGGNGCNNGGGGANGCAAACNGAAAAANAGCNG  
GAAAAAGNAGGAGNNGAAGCCAAACAGCCAAANNCNGCCANNAGGAAGNGNGNAAGGGTT  
TTGCNANTTTTTNANGGGGGGGGNANCAACCCCCNGAANAAAGNCCGGGCGNCGNCC  
CNGAACGAGGGGGGGGGGGGGGCGNCAAGAANNGGGNGANCAAAGCNNNANCGANAC  
CGGNGACCNNGNAGGGGG

Sequence 514

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCCGAAATCTTACCTTCAGT  
CTTCTCTGCCACCCAGTCATTTATATGCTTCCTGCACTCTTCAGTGTCTTCAGCAAAG  
GA  
CAACTCCTCCAGCTCTGCCTGATAGAAGTCTGACAGTATTCTTTAAAGTCTGGAAGGAA  
ATCACACGTCTTTTCTCAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAAGC  
AGGAAGTGAAACACAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAAGAG  
GCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTA  
CGACAACCTTTGAAAACGAACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGA  
AGTGAATAAAGAGGGGCGCTCAAATCTCCTTTGGGACACAGGGGGTCTTTTCGAGGC  
CAGGTGTATTTTCGAGCCTCAGTACCTCGGGCCGGTTCTAGAACTAGGGGGATCCCCC

Sequence 515

TTCGCCCACCGGAATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAA  
AAAGAAGAAGAAAGTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGA  
TTACTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCCAT  
GG  
GCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAAAAAAAGTACCTGCCCG  
GGCGGCCGCTCGACGTGGTCGCGGCCGAGGTACAAGTGCAGTAAGAGGGACGGTTAATTC  
ACAGCTTCCAGCTCTTGGCGCCAGAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCA  
TTTCCGGGAGAACCTCTTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCC  
CTTGGCGGGCTTT

Sequence 516

ATTGGAGCTCCCCGCGGTGGCGTTTTGCTCTTGTAGCCCAGGCTGGAGTGCAATGGCAGG  
ATCTCAGATCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCTGCTTCATCTT  
CC  
CAGGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTTGTATTTTAGTAG  
AGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAAGTCCCGACCTCAGGTGATCCGCC  
CGCCTCGGCCTCCTAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCTATACTG  
TATATTTAAGGAAGTTCAGCATGTTGCATCTTCTGCATTTATCCCTATATCATTAAAA  
GAACATAAAGTTATCATGGTGTGGGTAAATTAGCGAAATTCAACCCCTTCTTAAGGTTT  
AAGGGGAAAAGGTATTTTAAAAACAACCTAATNAAAACCTTACCCTTCTTATACAAGA  
GTGGATTTCCCCCTTAATTAGGGATGCATGGTTGATTAAACCTCNAGATACAGCTTTT  
TT  
GCAGTAATGGGGGGGNTGGGT

Sequence 517

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTGATCCAGTTCCTTGCTT  
TTCAACGAGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAG  
ATGCCAGTCAATTGGATTTCTGTTAAACACCGAAAAATCAAAAAGCATGGATTTAGTAGCT  
GACGAGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGAGATGTG  
GGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCTGCAGACCGCAGTTGCC  
GAGGTGACTTTGAATGGGGATATTCTTTCCATCGTCCA

Sequence 518

Table 1

AAACCCACCCCCCAGGGGGAAGGGNNGAAGGGAGGGGCTTGGAGGGCNGAGGGGGAAGC  
CCCCGAAAAANGACNNCCCCCAACCAGGGGANAANAGACCCGGNAGGGACAGGCNAAGGA  
GAGGGAACAGGGGAACCANCACTTTNTNTTTTGGGGGGCACNNGGGCNGGGACCCCCC  
NACAAAAAANANCCCCCGCCAGGANGGGGGGGGGGNNAAAGGGNAAAAAAAAAACA  
AGACCCAAAGAAAAAAAAAC

Sequence 519

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGTCAGCAATTTTGACAGTCAT  
TAATGTTTGTGATAATTTTAAATAAAGTGTCTGGGTTTCAGAATAAAAAAAAAAAAAA  
AAAAANCAAAAAAAAAAGTACCT

Sequence 520

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATGTTGAATAAATGTTTTTTCC  
CTTTAATTTTTCTGCTTCCCTAGTGCATAGAATTGAACTGCTTAGGGAGTTTGAGGCT  
G  
CAGTGAGCTATGGTCATGTTACTGCGCTCCAGCCTGAGTGATGGAGTGAGAACCTGCCTC  
AATTAATAAAAAAAAAAGAAAGAAAAACAGTGAGTGGGCTCATGCCTGTCATCCCAN  
CAGTTTTTGAAGCCAAGGCAAGAGGATCCCAGGAGTTCAAGACCAGCCTAGGCAACCT  
TAGCAAGACCTTGGTATCTTCCAAAAACCTTTAAAAATTAGGTTGTGTGTGGTGNTGCC  
TGGCTGAGATGAGAGGATTTGCTNGAATCCAGGAANGTGGAGGCTGNAGTTGAGCTATGA  
TTNNGGCCNCAGCANTTCCAGGCCTGGGGNACNCCAGGGGATACCCTGGTCTTTAAAAA  
AAAAAAAAA

Sequence 521

CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCGTCGATGAAGAA  
CGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACATTGATCATCGACACTTCGAA  
CGCACTTGCGGCCCGGGTTCCTCCCGGGGCTACCGCCTGTCTGAGCCGTCGCTTCCAAA  
AAAAAAAAANAAAAAAAAAAGGTCCCT

Sequence 522

AGGTACACCTCCCCAAGCTCTCTTCCCTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCC  
CCTTCGCCTTCCACCAAGACTGTAAGTTTCTGAGGCCTCCCCAGCTTCTGTCATGCTTC  
CTGTGCAGCCTGCAGAACTGTAAGTCAATTAAACCTCTTTCTTTATAAATTACCCAGT  
C  
TCAGGTAGTTCTTCACAGCAATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAA  
CACAAAAAATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTTCT  
GAGAAAACAAAAAGTCCAAAATCAAAGGAAAGCACCCGTTTTAAACCCTCATATCTTTC  
TCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTC

Sequence 523

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGTGAGAGGGAACGA  
GAGTAAGAGAAAGAAAGAAGTGAGGGGATGTAACTCGAATAAATTTCAAAGTGCCTCCG  
AGGGATGCAACGGGGCAAAACTGAACTGTTCAAGGCTTCAGATTGTAAGTACGATCTGA  
GGAAAAATGAGGTTTGTGTGATTTTGCTAAATGCATACCAACAGCGAATGGCTGCCTT  
AGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTTCAGTGCGATGTTTTACCTCCTGT  
GAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGGCTCAAATGT  
AGAAGACAGAAAGTAGCTCAGGGTCTTGGGGGAATGGAGGACATCCAAGCCCGTCCAGGA

Sequence 524

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACTG  
CAGGAGATGTGGGGCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGA  
CCATCTTGAAAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTGT  
CTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTTCAGCACT  
TGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCA  
TTTGTAAGTGCTGGAGTGACAGTAACGCCATCTCAGCTCACCGCGACCTCTGCCTCCTGGA

Table 1

TTCAAGTGATTCTCCAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCC  
ATATATGCAATTC

A

Sequence 525

AATTGGGGGGNAAACNACNGGCCCCACGGNCCNCNGGCCAGNGCACCCATTTTTTTNGN  
GGGNGAGAANNCCNGGCCACCCNGACCCGGAGAGGAAGGAGACNGTTTTTNAAGNNGCCNC  
GGGCCACACNCNAAAAANCGACCCGCAANNNGCACCGACAAACANCGGNGNGCNAACA  
NAACNNGAACANCCCGAGGAAACCGCCCNATTTTTTTTTTGGGGGGNCCAANGAGGGG  
CCGNCGCCACAAAAAAAACCAAGGCCCCNGGGGGGGGGGGGGAGCCCAANANNGGGG  
NGGGGGC

Sequence 526

AACTTAATGTCTTCCTTTTTTTTTTCACTGGCTTTTTCATANATCGAGACATGTAAGCA  
GCATCATGGAGGTAAGTTTTTGACCTTGAGAAATGTTTTGTTTCACTGNCCTGAGGAC  
TATTTATAGACAGCTCTAACATGATAACCCTCACTATGTGGAGAACATTGACAGAGTAAC  
ATTTTTTNGGGGNAAGAAGAATCCTACAGGGTCATGNTCCCTTCTCCTGTGGAGTGGGG  
GGNAGAAGGGGTATGGCCCCAGGGNNGGCCATATTACTGACCCTCTACAGAGAGGGGCAA  
GGAAGTGCAGTATGGNATTGCAGGATAAAGGCAG

Sequence 527

AGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGG  
ATCCCTACGACAGTCCCCTGCTCCGCTTCCAGAGCGCTTTGTGAAGTTCTCCAAATAAG  
AACAAGGACACACATTGTGTGTCAGGTACGAAGATCATTAGTTTCCATATGCTGAAGGTT  
TTTCCACTATTCACACTCTGTGGCGTAACCTTCTTGAATATAACCCCAAATGTCACCCA

A

TCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG

T

TTT

Sequence 528

AAGGANAATTTTTTGGGGGGNCAAAAAAACCCCANCCCCCACAACCANGCCNAACTNA  
ATCTTNGGNAAAAGAGGGAAANAGGCCCAAAAAGGACAAAAGGNNCANNCANAAAAAC  
AAANNNCCAAAAANCCGGCCAANAANANNNCAAAANNNNCCCCCAATTTTNTTTTTTGG  
GGGGGGGAAANGGGAAGNNACCCCAANGNACGCAAAAACNACCCAAACAGGGGGGGG

Sequence 529

CCGCGGTGGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGG  
ACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGGAATGGCAAC  
CGTGACCAATTTTTGGCTCAAGTTAAATACCAAAAC

Sequence 530

CGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGAACCCATTTGGATTAATTAGA  
GGTCTGTCTGAAGGAGTTGAAGCTTATTCTATGAACCCTTCCAGGGTGCTGTTCAAGGC  
CCTGAAGAATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTA  
GGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCA  
ATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCC  
GGGCGGCCCGNTCTAGAACTAGTGGATCCCCCG

Sequence 531

ACATTACNAAAAGGAGAGGNGGCCAGNNNAAACACNCNGAANCCANCCNNGCCNGAGN  
AACAAANCACNGGAGAACAAAAACGAAAAACAGCAGGNCCNCNNNNAAANCCAANNCAN  
ACAAAAANGNCAAAGNAGAACCAAAAGCCANGNGNCCCGCCAANAAAGCCNCCCCAAAAG  
CAACAAAGAGGNCNGCCCAAACCNCNAAAAAAACAAACCCCCAAGANGAAAAAAAACCA  
AAACCCCNAAANGNAAANGAAACAANCAACCGGGGGCCCCCAA

Sequence 532

TTTTTATTCAATTTGCGATNGACAGNNNTAGNTTAAATGTTNGTAACACTCTTAGAN

Table 1

N  
NNCTGGTTTGTTCAATTTGACATNNGGGGCTGCACCAATTTTTATTACAAAAATCAAAAAA  
G  
TAAAAATTCTTACAATATTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATT  
T  
CTACAAAATCAAAAACCTTAATGCAGTTTTATTAAGAGAGTCAAAATTCTCTCAGTTAAC  
T  
GGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAACAAAAACAAGGAAA  
AAAGAAAATACATGTCAACAGTCAGGTAAATATTTTGACCTGACAGGTTCTACAAATAGG  
GGATTTTCACTACATATAAAGGAATCTGTTACATGGGGGTAAACTTCCAGAGACCAAGT  
AGGAAGNGGTGGAATAAAAAACCAATAAATNCAAACGCCACCCCAAGGCTGG  
Sequence 533  
CCAGCTGCTNGCCTGCAAAGANGAGCCTCCTNNGGGGGGGGGNAAAACCCCNCCCNANCC  
NGGANCTTGGCCTTCACANTNNCGATGGGGGGCACTGGGCGCCACCTCANGGGAGAAGGG  
CTTGCCGGGAAGGGNTNNCACGAAGAACTGCATTNNGACCTGGNAGCGGAAACCAGGATC  
CTGCCAATNTNTNNACCACGGGGCACCCACAGGGACACAAACAAGCNCACCCAACAAAGC  
CAACCGCCCCNNCCCGNGGACCNGCCCCG  
Sequence 534  
CCCGCGGTGGCTCTTGGGGCTAACCTCTCTGCAGATGAAAAAGCAGCTGAAAGGAGTTTT  
TGGCGNCACCAATAACCCTAAAACCTGAAGCCTGATTACTGGAGTGACAACTACNTGAAA  
GAAGCAGAAGCCGTTTGCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGGCG  
TGGTGAAATGAGGGATCTCTTTGAGAAATTAAGATCACNTTTGGGATTACNTCATT  
TT  
CCAAGTTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGNGAAATTCAGGGACTAACAG  
ATCAGGCAGACAAATTGATAGGACAGAAAAATCTCCTGACTCGAAAACGGAATATTCTGA  
TACGGAAAGGATCGNCTCTTTCAGGTAAGACAGAAGAAGTGGGCCTGAAGAAGCTAGAGG  
ATATTTATGCAAAACAGCAAGCACTAGAGGCCCNNNNNNNNNNNNNNNNNNNNNNAAAGN  
ACCTGCCCCGGGCGGCGCTCTAAAACCAGGGGATCCCCCGGGCTGNAGGAATCNAAT  
CAAGCCTAATCGAAACCGNNACCCNCGANGGGG  
Sequence 535  
NGGGCAAAGGGAAGNAACAGACACACNCTNNTGGGGGNGGATNAAACCCGGGACCAGAGG  
CTCAGNNGGNGGAGAGANCCCTGCTTACCCACCAACCAGAACGNGGCCCGCCNAGAGGCT  
GGAACNGAGAGAAAGAANCNGGGGCTGGCNNAAGAAAANANAGACANNNCNCAAAAAGCC  
NAGTNCATNTTTNNTTNCNGNNGGGACCGNNCACCCGCAGAAANANNNCACAAANAGGCCG  
CCGGNCAAACGGGGGGGAGCACGGACNGTCAGGNCNCNGGGAAGGGGGCAGCGCAACCCG  
CAGGGCNCNCCCCCNGGCCNNGGAGAACCAGGGCCNNCNCAAGGGCCCNAGGGAC  
CGCCAGGCNNGNACAGCCAGGAAGGCCAAAANCAAGAGGGAGAAGGAGAAAGGNGNAAAA  
AAGAAAAAGGGGAGGNGG  
Sequence 536  
GGGGANCCCGCGGNGGCANATTGGGGGGGAACACACAGCAAAGANACGNNACAGCCTGAG  
AGCTTTCCTTGGGGGGGCTTAAACCCCCCGNCCGNCCATCTATCCATCCATCTGCTCAT  
CCNTNCCTCCATCTGCGCAACAAACGCNAGAGAANCAATCCTTGGGGCAGATACTGGGGC  
TGCCCTCAAGGAGCTNNNATAGAGGNCAGGGGACCTTTGNCGCTNTTTNNCTAGGGGANC  
Sequence 537  
GGNCCCCCGGGCTGCAGGAANNCGANATNTNCTTTAGGGNGACCAAAACCCCC  
Sequence 538  
GGCACCCCGCGGNGGCCCTNNGGGGGGACAACNCCGCGCCCGCCAGNAACAGGCCACAGCC  
CAGAGCTCNNTCGGGGGCNAAAAACCCGGACAAGCNGCANGCGGGGGGACAGGNCTGCG  
GGNCNTGGAAACACTGGACNGGATGGCACANGAACCAGAACTCCGCTCCGNTTGGCTGCC  
CAAGGANCCCAACNCATNCTAANCAGCGANCACNGAGGAAACGCNTTTTANNCCGAG

Table 1

GNACNANNNCANAGAACAGGCCNACCGCAAGGGCANACCAAGAAAGGGGGGCGNAAGGAN  
AGNNAGGGGGNAACAANGNACCANAGGNCNNCAAANGNCNGACANNANCNNNACCCNAC  
CNCNAAANGCCCNCCNTNNCACAANANCNNNCCNGANNGCNGNGNAAAGAAAAACAAA  
CAAAGACANGGAANNACCGGGCANANNAGCAGAACCAACCGGAAAANGCANGGAGGGNN  
CAAAAACACCACCNACAGGAAGGAANAACCCAGAGGAAAAAGGCCGAAAAGAAAGAAACCG  
AAANANAAGACCNGGGCCGAAAAAGCNNACCCAGGAGGAACCCACNNNCACGAAANCAGA  
ANNNCCCCCNCCCAACCANNAACAGGGGGGAAAAAAAAAAAAANCNG

## Sequence 539

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTTTTTATAGTTTT  
TTTGTTTTTGTATTTTTTTTTTTGGTTTTGTGTTTTGTGTTTTTCTTTTTT  
TTTGGTCTTAGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGAGTTTATTCT  
G  
ATTGATTTTTTTCTTGGTTTCTGGATAAACACCCTCTGGGGACAGGATAATAAAACA  
T  
GTAATATTTTTTAAGAAGGAAAAAAAAAAAAAAAAAAAA

## Sequence 540

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTATTTGCTAAAAAATGCT  
AATGATATCAAACCATCAGCTACTTGTATCTTTTTGCTGGTGGAGGGTTTTGTCTCA  
A  
TTTTGGTGGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGGCAA  
TTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTAAATCCCAGCACTT  
TGGGAGGCTGAGGTGGGAGAATCTTTTGAAGCCAGGAGTTTAAGACCGGCCTGGGCAACA  
TGGTGAGACCGTGTGTCTGCAGAAAAATGAAAAGAAATTGGCTGAGTGTGGGGGTGCATG  
CCTATACTACCATCTACTAGGGAGGGTAGGATGGAAGGGTTGCTTGAGCCCAGGAATTCA  
AGGNTGGGCCACTGCACTCCACCCTGGATGGCAGAGTGAGATCCTGCCCTCAAATTTTAA  
ATNA

## Sequence 541

TTTTTTTTTTTTTTTTTTGTTAAAAGACACAAGTAGTGATATATCAACATCTGTTTAACT  
CGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTTTCTTCTTCCATTACC  
TTTTCTGATTCCACTTTCAGTTTCCATTGCTTCGCTATCTTCTGGTAGCCACAGCTC  
A  
GCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTTCTCTCGGCCCCCGCG  
CGGCCCCGGGAGTACCTGCCCGGGCGGCCGCT

## Sequence 542

GCCGCCCGGGCNGGNACAAAATGTTAAAGACGTTGTTTGTATNTGTAAGGCTGGTGTATT  
CAGAGAGCATNATCTCTTATTCCTCACTTCCACCCCCGTATTTTGTAAATGACCATGAT  
C  
AATGTTTNTACTTTTTGTNTAATGGGGTGGGGTGGAGTGGGGGCTATCTGAGAGTCANCC  
TGAGGTCTTTAGAGGACCANCTATTGTATCACCTTGGATACTTGAAGTTT

## Sequence 543

CAAAANACTTTGGCCANANTAAAATNGNTGGAACANAGGTTTCTTTTTAAAAAAGGAAG  
GGTTAAAGAAGCCAAACGGTNGCTTTTNGGGGAANGCCANGAAAGAAAAANAAGGGGGGA  
GNAAAAAAGGCCATGNCCATTCTNTGCCCCCTTGNAATGGAAGCCCCANGGGGGGGNAC  
ACCAAGCNAAANNAAGAAAAGGCCCCACCTTNATTCTTCAATTTTTAAATTCCTTTTA  
A  
CCAGAACATTCTTCTTTTGGCAACAAGNGGTCTTCCCCTTNGGGATTGGTCGGAAANAAA  
TCACCCATTGGAAGANTGAGAGAGTNCAGTGGGAAAAGCGGCCACCTTATTCAAGTCCCC  
TCCCCTTTCTTGGCGTNTGGCAACCAAAAGNTTNTTCTGCGGGGGCGTTGGGGACCCCG  
TNTTTCAAACCAAGTAAGGAAGGGGCCTTTTAATTTTTGGGGACCTTTATTAATGGCTT  
N

Table 1

AGAAAAANGCAATNGGTAAGNGGCCTTTCNTTGNNGGNGAATNAAGGGGCCCCACGGAAA  
AGCTTTTTCCCCTTGGAATTGTACCCCGGCCGNACCTTTTCCNAANGCCCCCTTNNC  
CCTTTANAAGGACCCCCCAAAGGTTGGNTNGGGCCCCCCC

Sequence 544

TCCGCGGTGGCGGCCGAGGTACCAATACTTACTTACAAATTTAATACTGCTTCAAGGTAT  
TTAATCTAAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTGTTTTAGTGATA  
TGCTTTAATTCGGATCAATTACTGCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCA  
A

CAAAATACCCAGTTCATTTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAG  
TGACCAACCTTGACCTGCCCCGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGA  
AGAGTGCTGTGTTTGTGCTATATCCCCTCCAACACCTAAGGCAATGCATTTACATC  
TT

GCTGAGAGCAGATAACCTCAATACCTGGGAACTAGAAAAT

Sequence 545

AGTGAGGGGTAAATTGCCGCCGCCTTGGGCGTAATTCATGGTCATAAGCNTGTTTCCTGT  
GTGAAATTTGTTATCCGCTTCACAAATTCACACAACATTACNGAAGCCCGGGAAGCCAT  
AAAAAGTTGTNAAAAAGCCCTGGGGGGGNGCCCCCTAAATGGAGGTGGAGGCTTAAACCTT  
CAACCATTTT

Sequence 546

GCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAACCCAATAGG  
ATGGCCATCTGCCCCATTAATGCCAGCTTGCCAAGTGTAATTATTAACAGTGCCCCCTT  
TCACTCTCCAAAGAGTNCCTTGTNCAACAGNTTAATTGTGGAAGTCGCCTTCAAGATGA  
CTGGGCGGGTAAAGGAAAGTGGGAGTGAGGGAAGCAGGGTAGGTGGAGGGTGTGAAAGGG  
AGAGGGCCTCATCTCAGGGTGGCTTGGACCTGCACCAGCATCGGCCTGCATGAAATGTGC  
TCCTACTCTTGCCCAGGCTGAGTATCAAAGAGAAGCAAGAAATCTAGATAAAAATNCAAA  
TCCAGAAACA

Sequence 547

GCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCC  
TTCATACATCTCAAGTTGGGGGACAAAAAGGGGGAAGGGGGGGGCACGAAGGCTCATCAT  
TCAAATAAAACAAAATNACAAAAAGTTATTTAAAGGGCGAAANGATTTTAAAAA  
ATTTTTTGCAATTTACCAATAAATTTTTTACCACCGAAAAAGCCAAANTGGCCTTANT  
A

CACCCCTTCNCCCCNTGNTGGTGGGGACCTTTTGGGGGAAGGAAGGGNACCTTGGGGGNC  
CCAATTTTCCTTCCCTTTTAAGAAAGAAGGAAAAGTTGGGGGGGGTNGGGGCCTTTTTTT  
TAAGTGAATNGGGGCTAAAGGGGGGAACCTTTTCCCCTTGTTAAAACCAAAACCGCCAA  
TTTCNTCCAATTAATTTTTTGGGAAAATTGGAACCTTAATTTAAAAA  
ACCAAAATTGGGTTGGCNAAATTCCAAAAAGGTTCCCNCTCNGGGCCCCCACCAATTT  
TGGTGGAAAAACCTTTTTTGGGGGGGGGAATNGCCTTTCCGGCCTTCCCCAAACNCNG  
NAACTTGGCCTGGTTCCAACCTTTTCNACCCCGGTTTNNCCAAGGTTTTTTTTTAAAA  
T

TCCCCCTGGGAGGTTCCAAAAGGCCCAAAAAAAAAAAAAAAAAAAAAA

Sequence 548

GGCGCCGGGCAGGTCCCTTTGTAATATCCTTTATAATAAACAGTAAATGCTGTTTCCCT  
GAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCAAGAAGGGGGTTGTGGGAACCC  
AATTTATAGCTATTAGTCAGAAAAAACAAGGTAAGACAATCTTGGGGCTTGCGACTGG  
CATTGGAAGTGGGGGACAGTTGTGCGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTA  
TCTCTGGGTAGATGAAGTAGAATTGAAGTGGGGGACACCCAGCTTGGTGTCCACTGCAGA  
ATGAATTGCTTGCTTGATGTCTAGGGAGGCCGAGAATTATAGCAGGGAGGTGAAAAGCA  
CTTCTTATATAGCAGTGGAAGAGAAAATGAGAAGGAGCAAAAGCTGAAACTCCTGATAA  
ACCAATCAAGATCTCATGAGGCTCATTAATAACAAGAATAGCATGGGAAAGACTGG

Table 1

## Sequence 549

NACCCTCTCAGCCNCCCTGTAATTGCGCNAACTNTGGAAACGCTGCAACGATTGTGAGT  
CGTATAGCGTCTATGTACATATAGCATNTTCNATAGTCATTGGTGTAGAGATAGAAAATG  
CTTCGTACATGTCAATGGGAGAATGGGTGGTACCACTACACCGGAACTATCCCTAAGTCC  
ATCCGCCTGGGGCGAAAGGAAGGAAAAAAGA

## Sequence 550

NTATCTTGTTGCCTCATGNNGGCTACACCNACGCTAGNNAGCCCAATGAGACGTTACGAG  
CGCGCAAGTNAGAAACNAGATTTTCATAGAGCGCTTGTTGGGAGAGGGACATTGCGAAACC  
GCGCGTTTAAGTTACTCGTAGATATTGAGTANNTAAGGNCGTTGGGGAAACGCAACCAAA  
TACTCCTAGAGCCTTTGCCGNAACAAGNTACTACANTTGTTGNGGGGAACGAAGGTGCC  
CCGNTCAACCCNTTGGCCCCCAAANAGCCCCAAGNCTTCCNTTGTTNNGGTATGGCAA  
NNNCTTAACNGAACCACATTGGGCCAANGGNNCGCNANTGNCCCCNTGGTTTTTATCNN  
NCANTAACCCNANCNAAATGGGCGNCNTCCATAGGNAACCTTGTTCCCNTAGCCCCCTT  
NGATATTTCTCGGCATTTTNTGGCCCCNTTTTCGCTTTNTNTAANCGCCANTTACCT  
NT  
AGCNCCCTTTTAGGCAACATCCTTTAAAAACGGNGCGGAGCGGTGTCCCCCAAGGGCCT  
TNCCCCCCCCAAANGCCCCCTTTTGGTGTGCAATTTGGCAAGCCCTTTTGGNAGGGAACNA  
AAAGGGGGGGGTGGGGANAACCTCCGGCCCCNACCGCCCTTTGNNCCCTTGGGTAAAC  
TCCAAATNNGGGGGANGGCAACNAAAGGCCCTTCNTTGTNGNGNCANTNTTTGGGGNA  
AAGAAGNACCCCAAGGNAAGTGNNCCCACCGGGGGTTNANAAANAAACCCCCCAAAGC  
CACCCAAGNGGAACCTTACCCCTTANAACTTTTTGNATTANGTTNTAACNAAANNACC  
CGNCCAAAATTTAAANAAAAANANAAGGGCGGATTTAATTTTTTAAATTCNTTGNCCCA  
TTNNGGGGTGGAAACATNTAAACAAATNTTAAAA

## Sequence 551

AGTGGACTNTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGTC  
T  
CTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGNTACTNGGATGTGA  
AA  
CTCTCCNTTTGGAGATGAAACCATGGCGTAAGTAATATAAAGACTTTTCCCTGTAGTT  
AT  
CTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAATGCCCATCTCTTGAAA  
TATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGAAAAGGACCTCAGCAAT  
GGAGAATATCCCCATCATCACAAGTGTCACTCTGCCGCACGTGATTGTGGAGAATAT  
CCCTCTCCNTGTGAATGCCAGAATGAGATTCATTACAA

## Sequence 552

GGCCGGCCGCCCGGGCAGGTACTACAATGATTCTGAAGCACAGTGTATTCAGACAGATAC  
AGTGAACCAAGTGCAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTA  
AATGCCTTGCTTTGCAAATGTTTTATNTTAAATCATTAAGGGAAGGGAAGTACTTT  
G  
CCTTTAAATGNTTATCAAAAGAGTTTTCTAACCAAGGNGTAATACCCTTANTTCTTAAC  
A  
TTNTTTTTCTTTATGTGNTAGTTGTTTTCATGCTACCTTGTGTAGGGGAAAACCTTTAT  
TTACAAGACNCATATTTANAAAAGGGCTANATTTTTAAATACTCAANATTAATATTTAA  
AAGGTTGGCTCCTNGAATTANNAGCCAAGNAAAATTANTTTTTACCAGTTTTTCAATT  
T  
CCCAACNANGAAAATAGGCCATTTCCCATAAACCCCAACCTCCCNANAAATGNAACCCCA  
AAGGGGCAATTATTTATTACGTTATTTTTTGGGGAAGGGGGAAANTCCAANNGGGGGT  
T

## Sequence 553

CGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGACCTATTG  
GAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAAAACCCAAAGGCCAGTTA

Table 1

CCAGATTACACATCCCCAGTGGTGCTTCCTTACTTCGAGCGGGCCGCCCGGGCAGGGTA  
 CTTACACCAAACACTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATA  
 TCCACATTTACAGTCCGGACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAATATAAA  
 AGGAAGAGAAACAAAACACACATTCATACACTCACACTTAAAAATAGGGGAAGACCAACAG  
 GGGAACTTTTCGTTCTCTTCCTGGGATGTCTACTTAAAAATCCCATGTGGGTACCT

Sequence 554

NCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGTATTGAAACAACAATAC  
 ATTTTGCAGTGTAGTAATGGGAGCACTAACTCTTACAACAGTTAGTGAATCGTTTTAAA  
 G  
 AATCAGTTCAGTGTAGACATTTTGAAAAGATTGTTTCCTGTGCTCTACGATAGCTTAGT  
 G  
 CAATGTGCACTTCTGTTTTACTTGCCATTTTCCTGCTCTGTTTTCTCTGTGACATGAAG  
 C  
 AACAGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTTCT  
 G  
 TGTACATTTACATTCAAGTTTGATAACACTGGTGGTTTCATTTCAATACAAATTATGCTA  
 GAGAACTGACATTTTCANACATGGTCATATATATGCTATTTGAATTCCTTTATCTTGATA  
 CCAGATCTTGGATTGTGAATCTCTTGATGATAGATGTGCAGCTAATTTTGTCCCGAAA  
 CT

Sequence 555

GGGTGGCGGCCCGCCCGGGCAGGTACAAGACCATGACACCGCCCAAACACTTCCTGCAGA  
 TGTTGTCGTTGGAAAAGTGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCT  
 TGGTTGTCAGCAAGAAGCTGACACACCTGTGCTTGGCCAAGAACCCCATTTGGGGGATAC  
 AGGGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGT  
 GTTACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGA  
 AGCCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGG  
 GATTCTCTGTGAGGGCATTAGAGAATCCAACTGTAACCTAAAACACCTACGGTTGAAGA  
 CCTATGAACTAATTTTGGAAATCAAGAACTTTTGANNGNAAGTGAAGGAAAA

Sequence 556

GAGAGCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGGCACTCGCAGCTGCAGCAA  
 TCTCAAATAAAGAGGCAACGGCCTTTCTCTTCTCTCCATCTCTCTATAGCACACCTT  
 T  
 TATTTCTTTTCTTCTTTTTTTAAGCCTCACGAAAGATTTTACTTGTAGATCAACTTTCAA  
 AATGTAGGAAGTCAGAAATGGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAA  
 GTGAAGAACCCAGAGCACNGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCGT  
 CTGGGCTTCAGAGGAGCCAGCCGCCTCCGAGTTGTCTTGAAGTGAGGCTCTGCTGTAGT  
 CCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTTGCTNTTTCCTGGA  
 GG  
 GTAACCCAGTTTGGTCCACAAGGGCTT  
 G

Sequence 557

GAGCCCGCGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAGATTTTGA  
 CCTCAGTCCATAAACCACACTATCACCTCGGCCATCATATGTGTCTACTGTGGGGACAAC  
 TGGAGTGAAACTTCGGTTGCTGGCAGGTCCGTGGGAAAATCAGTGACCAAGTTCATCAGA  
 TTCATCAGAAATGGTGAGACTCATCAGACTGGTGAGAATCATCAGTGTCTACATTCTGA  
 GCGGCCGCCCGGGCAGGTACCGCGGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
 GGCGCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGGTTC  
 GTTGCTTTCCAGGGCCTGCTGATTTTTGGAATGTGATTATT

Sequence 558

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTTGTGAGACGGAG



Table 1

T

CTCCCTCTGTTGCCCAGTCTGGAGTGCACGTGGCATGATCTTGGCTCACTGCAACCTCCA  
TCTCCTGGGCTCAAGCGATTCTCCTGACTCAGCCTCCCAAGTAGCCTGGGATTACAGGNT  
GCCTGCCACCATGTCCCGGCTAATTTTGTATTTTGTAGTNAANACGGGGTTTCACCA

TA

TTGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCGCTCGGCCTCCCAAAGT  
GCTGGGATTACAGGCCCGAGCCACCGNACCTGGCCTGTATTCCCGCGTACCTGCCCCGGG  
NGGCCNCTNTTAGAACTAGGNGGATCCCCCGGGCTGCAAAGAATTCGATATTAAAGCTT  
AATNCNANTNCCGTCGACCTCTAGGGGGGGCCCCGG

Sequence 559

CGGGTGGCGGGCGCCGGGCAGGTACGCGGGGGGTGCCTGGCTCCGTTTCCTGCTTTTGGT  
CTTACAGTAGTCGGCGTAGGCCCTTAGGTGGGTTCGTGCGCCTTCTACCTCGCTGTTTCGG  
TTTTCTGGCTCCTCGGCCCTTTTCTCCCTGTTGCAGCTGGGAGCGGACGAAGCCGCGA  
AGCTGGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAAT  
CATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCC  
CTATATGCCCTGTTTTCTCAGTTTGGTCATGTGGTGGACATTGTGGCTTTA

AA

Sequence 560

GCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGATCGGCA

A

GCGACGCTCATACANGGCNTAGCCCCGGGAGGAACCCGGGGCCGCAAGTGCGTTCGAAGT  
GTCNATGATCAATGTGTCTCGCAAT

Sequence 561

CATGTGGGAAGCGCTGTGAAGAGTTGTTGCCTTNCAAGATATACTCCAAATTCCCAGTTC  
CAGCCCGTGTCAATAAACTCCGCTGGCGTGAAAGATGACATCCTTAGCCCAGCAGCTGC  
AACGACTCCGCCCTCCCTNAAAAGGGGGATNCCAGCCTTTAATNTANAGATGAANTTTG  
CCTTCCTTTGNTATTTT

Sequence 562

NNNAGCCGGGTATTANCCTCTACTTCAAAGGCGGGTAATNACCGGTTTATCCACAGAAA  
TCANGGGGGAATTAACCGNCAGGAAAAAGANACCATTGTTGTATGCCAAAATAGGGCNC  
ATGCTAAAAATTGCNCATGTGGAAACCCCGTTAAAAAAAAG

Sequence 563

CGATAAGCTTGATATCCGAATTCCTTGACGCCCCGGGGGGGGGATTCCCACTTAAGTTTTT  
TTAAGAAGCCGGGGCCCCCGCCCCGGGGGGCAAGGGTTACCCCCGGGGGGGGGGCCCCGGGN  
AAAAGTTTGGGAAAAAAAAAAAAAAAAAGGGTTTTTTTTTTAAGGTNGGGGCNTTTTGGNA  
AGGGGTNTTTTTCCCCCCCCCAAAGGGAAANACNCGGGGNNNCCCNGNCCANAACCCG  
GGGGGGG

Sequence 564

AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACACACACAC  
ACAGATGTATGCACGCACACACACTCTCACTCCTAGACTGCTAAAAGCAAAAAAAAAAAAA  
AAAAAAAAAAAAAAGTCCCTGCC

Sequence 565

NGACCTCGGCACTNAGCANCNCACTACTTAGGGGGNGTTAAACCCCCCCCCCCCCCN  
GNAGAAACCNCNGCGCCATGAGNTNTCAAGNNGGAGGAAGAAGCGACCCGCGCANGCTGAA  
GCGCAAAGAAGAAAGANGAGGCGAGGGCCAAGNAAACCGNNAGCNNGNNGCACCNGGG  
AGGCNTTNTNGNNTTTGNNGGGNGGAANGCNGACGCCCNNGGAAGNANGAACNAAGAAG  
CG

Sequence 566

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGACTGGAGGACCTGTCTGG  
TTATTATACAGACGCATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTG

Table 1

CTCAGTCTCTGCCAGGGGAAGATTCCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGCT  
GCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCACCTTTTCTTTGTGTGG  
GA  
GTGAGGGCAGAGGAAGCTGGAGCGAGGGTGAACAAAACGTTCCAAGTGGGACAGATACT  
GGAGATCCTCAAAGTAAGCCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGC  
AGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTG  
CTACTCCTGCTGAC

T

Sequence 567

GTTTTGGGGGAACACCGCGGNGGCGNTTTNNGGGGTANACCGGGCCACNCACCANCNNCAA  
GGNCGAGGNNNNNTNNNTTNGGGGGGTTTAAACCCCNCCCCCNCGGGCNNNGNAGGCCG  
NCANNANTTTTTAGNNNGGGGGGGGGGNNGCCNCCGAAANCCCGACCTGNCCGGGC  
GGGCGTTNAGAACNAGNGGANNCNNNGGGCNGGAGGAANNNGNANNAAGTTTTTTTT  
TTTTNNGGGGGNNNGGGGGGGGGCCCCNTAAAAAAAAAAGNCCCCNAGNNGGG

Sequence 568

GCGGNGGCGGTTTTCGGNCGAGCCCTCTCTTGNCCATCTTCTCCCGCTGCTGAAATTTCT  
NTTGCGGGCGCTGNAANCCAGGACCCCNCCCCCGCGTACGCTGGATAGCCTCNTGGCC  
AGAAAGAGAGAGTAGCCGCCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCCGA  
ATGCTGGCAGCTTCAGGAATCCCCGCGNACCTGCCCNNTGCGGTCTGTTCCN

Sequence 569

ACAAAAACCCAAACCCAGACAGCAGNAATGNCAGAAGANCCANGGAGAACAGCAGAANC  
TNACACCGCNGCNCCTCTGAAGGCTGAGAACACAAGNCAANACATNNAACTNAAAAACAA  
CCGCTGAGAGAACACGGGGAAAAATNTNCANTTTAGAGANGNCCACAAAAAGGACACGC  
AAAGGGGAAGGGCAAGGCGGNGAGACAACGACGNNANNCNNGGGAAGACNNGGGGAGGGGG  
NGGAGAAGAGCCNNGGNGCCAGANNCCGGNCGGAGGNACGAGGCGGNGACCCACAAG  
GGACCNCCCCGGGCGGNCNGNAGAACNAGGGGAACCCC

Sequence 570

GCGGGNNGGCGGGTTTTTTNNGGGGGGGGCAACCCGCCNGGGANGGAAGGAAGGAAAAA  
ANGGGGAAGGCCAAGGGNCCGATTTTTTTNNGGGGGGGGGGNNNAAAAACCCCCGGGGNG  
GGGGGAAACGGGGGNNNNAAAAAANGGGGGGGGNNAAATTTGTTAAAGGGGCNNAAA  
AAANGGGGGNAAANCCNCAAGGGGGNNGGGGGGNNCNNNGGGGGGGGGGGGAAAAAAC  
NNAAAAANNNNGGGGGGGGGGNANAANNNNNNNGGNNNCCCCNNGGGGAAAAAAAAC  
CCCCCCCCCCCCNNGGGGNGGNAANTTTTTTTGGGGGGGGGGGGGNNNNAAAAAAAAC  
CCGGGGGGGGGGGGGGGGGGGAAAAANCCCCCNAAAAAAAACNACNCCCCC  
CCCCCNNGGNGGGGGGGGGGGGN

Sequence 571

CGGTGGCGTTTAGGGACCAAACGATAGCNGTTCTGTTTAAGTAGGGACCTCTCATGGTNT  
NCAGGCTNTGACAACCGAGAATCAAACCTGGAGAACATTCCGAAGCCGTTCTTATAAGNGT  
CTCCATCTCTACCTGGGCTGAAATGGAATGTGCAAATGTAGCCCAGCCTGGTCCTTGGGT  
GTTGCCAGTTGATTGATGACTGGGAGCCAAAGTGGCATTNCTTNGACCTAAACGGGCGA  
TGATGAAATAAATCGAGCGGCCGCCGGGCAGGNACATCTGTGAATGTGAATGCCAAAGC  
GAAGGCATCCCTGAAAGTCCCAAGTGTCATGAAGGAAATGGGACATTTGAGTGTGGCGCG  
TGCAGGTGCAATGAAGGGCG

T

Sequence 572

TGNAANNCCCCGCCACGGAAAAAGNNGGCCCNAGACCAGAGCTCCAGCAGCCCNNGGAG  
GGCGGGGGCCCGAGGCANGGANAAGNNGGAAGGAAACGAAGAACAGGAGCAGAAANNGAAG  
AAANACAAAGNGAAANGGGGCCAGNCAGCATGTGAGAGACNGACCACAAAGCCCCACNN  
CCACNGAAAAAAGGNGGGAAAAACACCGGAANNAAGGAAGACCCAAGCAACNNGGNN  
CNGGCAANGAAAGCAGCAAAANAGAAAANGAGGCCAAACCAANGGCAANAAACACCG

Table 1

## Sequence 573

GCCGGCGGCCGCCCGGGCAGGAACANAGCACTNAGGNGNGNCGGAAACNCGGCANGGGAC  
AGGACANAAAGGAAAACANAAAGANGCAAGGGGACACGACACANANGAAAGGNGAAGGG  
CAACGNCGACCAAACGGGGGNAGAAGACAAAAACCAAAA

## Sequence 574

NGGGNNGGGGTTNTTTGGGGGGGGNAAACCCACAAANAATACNNGGAAGGGNNGNNGNNGG  
GGNNGGAATTNTTTTNGGGGGGGNNGGTAAAAANCCCAAANCCCNAAAAGGGGGGGGGGGG  
GNAAAGGGGNAAAAAATTTTTNGAAAGGGGGGGGGGGGGGGGAANNCCCCGGGGAA  
AANNAANGGGGGGNGNNGGGGGGGGGGNNNNNNNAANNANNNNANGGGGGGGGGGGGGGNN  
NNAAANGGGGGGGGNNNNNNNNNNNAAANTTTTTTAAANTTTTTTTTTTGGGGGGGGGGG  
GGGGGGAAAAANCCCCNNNGGGGGGNGGGGGGNNNNNGGGGGGNNNCNNNCNNNNNG  
GGGGGGGGGGGG

## Sequence 575

GGAAANACACACGCCAGGAACCNNGCAGCNNACAGNGACAGAAATTNNGGGGGNCGANAA  
ACCCACNCACCCCGANNNCNGGANCNCNAGGGAANGAGTTTACGNCACCGGGNNGGCC  
CTCCCCCAGAAACNNANGNCCACAAGNCACTGGGCACAGANAAGAGNGNCGGNCNCAA  
AACNCACAGGGCNCAGGGTTNGCGTGNTTTTGGGGGGGGGGANGGGNNACCCCCCGAA  
AAGAGGGCNGGNNANCCGGGNNCNCNGGAGAAAGANGGGGANNCACAGNCCANGACACN  
ACANGGNAACANAACNGAGNNNNCAANNNGAGCAGNAANNCGGGGGNC

## Sequence 576

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCTCCCTAC  
TGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGAAACCATGAAGAGCCTGATCCT  
TCTTGCCATCC

## Sequence 577

CAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGAGCGAG  
AGGCGGCGCTGGCGTTGGAGAGCGACGGCGCCCCCGCGTAAGCAGTGGTAACAACGCGAG  
AGTAACGCGGGAATGAAGAATCTTAGGCGGGTGCACCCAGTTTCCACCATGATTAAGGGT  
CTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCATTTTGGACAGAATGGA  
ATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGT  
GCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATAT  
CATTTCACTGTCTAGGCTACAAC

## Sequence 578

GCGATTGGAGCTCCCCGCGGTGGCCCGCCCGGGCAGGTACCTCACAACGAGTTCAGTCAG  
TAGCAGAAGGATCTTCTCTCTTGTCTGATGATTTCAAGGTCCTCACAGTCCTGATA  
AT  
CTGGTTCTTCCCGAAACTCCCAAATATCTATGGAGAGCTGTTCTAGCTTTTGCACAGGGA  
ACCACTGGACAGAGGTATCATTAAACATGTCCATGTATTGNGAAGTCTGAGGAAACTCAA  
GCTCCTCCAGTCCTTTTAAATCTTTGCAATGTAGGGATAATTTTTCTGCAGAATCCTT  
G  
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAGAAAGGG  
CATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCTCGGCCGCTCTAGA

## Sequence 579

ATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTTCGATCCCAA  
TTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGTTGCCAGGAGGAAGAATGAGT  
CTACTTTNGANACAATTAAGTCATGGNCCTCTCTTTTTTTTTTTTTTTTTTTGGCT  
ACNTAGACNTCTTTCTCATGTATTGTTACTAGAACAACCTTNTATAGGGTTTTATGGTTN  
G  
GGGAAAACATTNNATAAAAAATGGACTNATCTCTATTATACAGANNTATAATATAAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTNCNCTGTCANCCTGTTGAAGAAN  
CT

Table 1

TTCCTATTTAAGCTTATAGGATGAAAAATATAATTAAG

Sequence 580

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCAAATGCTTCCCTGGTCTTGATGAT  
CTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCCTCCCCTTCTTTCTTTGAA  
TG  
GAATTAAACCCAATTTGGAAACAACATTGACCCAGTCAAAGCTTCTAATGGTTTCTTT  
T  
TCTTCTCCAGTTTTAGTTTGCTTTTATTAAAAAAGAAAATAGTGCATGGCCATAGCT  
C  
CTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGA  
GGGGAATGCGTTGAACTGGGGCAAGTACCTGCCC  
G

Sequence 581

CGTTGCGCTCACTGCCCCGCTTTCCAAGTCGNGGNAAACCTGGTCCGTGCCAGGNTGCAT  
TAAATGAAATCGGCCCAACCGCCGCGGGNAGNAGGGCCGGTTTTGCCGTTATTGGGGG  
CGCCTCTTTTCGCTTTTCTCGCTTCACTTGACTTCGCTGGCGCNTCGGGTTNCGGTTT  
CG

GGCTTNGCNGGTTCGNAGGCCGGGTANTTCAAGTCNTNAACTTCAAAAA

Sequence 582

NTNGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTGTAAATACTCGNAGGCCTTTAG  
GAACCTGTGACTGANTNCATAAATANCAGANCCTATATTGTGATGNTGGTNAAGGACAN  
GTGCTCANCTTCCAATTACA

Sequence 583

ACCCTCCTGGAACCGNAATAAGTTNNTGGGGGGGGTNAAACCCNNGNCCACNGAATNNNC  
GGACCACANGANCNAACTNAAGGNCTAGCTCANAGAAAGCAAGNGNCAAGCNGGGCANT  
AGCTGCTGCTTCCCCTGGNGGAACATNGCCTGCTNCCTCATAANCCATNNCCAGACAAGC  
AAACATTNGTTNGGCAAAGCCGACANCNACNCCAACNACAAGAGACACTAAAGNGCNNGC  
NGGGGGGGCTNCCAGGGGAGANGAAANGGGAAGNCGGGCNGCAGCAACNCNNGGNCAAAAA  
AAACACCAANNNCNNGGGGCNCAANGGCACNAANCAGAACGGCNCGCCCNNGGGANCCAC  
AGCNAAGAACC GGCC

Sequence 584

TTGGTTATACAACATTTGTTTAATAAATGCANTTTNCAAAGCTACACANGACTTAGATA  
T  
TGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTCTTACTACCCTGGC  
CAAGAAAGCATTTTACCTCCTGCGCTTTCCTTCTGTGTGCTTGTGGTTGGTTCTTT  
CT  
TCTCAGGCTTTNTNATTCTGATGCTGAGATAGTTCTGTTCACCTAGCAACTTGGGACA  
GT  
GACACAGGGTTTGTCTGTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCT  
CTCCAACCATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACATACT  
TCTTTGCAGCGGACAAATACTGGA

Sequence 585

AGGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAAGTGTCTCAG  
TTTTTGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGATTCTGGTAGTCCAAGCTGTC  
TCCGTCTGGTGGCACCCCAATTTCCCCTGCCTAGACCCACCTCCTTTCCTCAGCCCCCTT  
CGCCTGCCGCTGAAAAGTGAGAGCGGGCTCTTGCGTCCCCCGGTACCTGCCCCG

Sequence 586

GGGGGGNNAAACCCNGAAGANGCGGNNNACGCCNNNCAGAGCCACANNATTTTTGGNCGA  
AANAGGGGNCCAGNNCCGAGGAAGGNGGAGGAGGNCNGNAGGNACCNNGGGCGGNNNAGA  
ACNAGGGGANCCCCCGGGCNGGAGGAATTTTNNATTTTTTTAGGGGGGNGGGGGNNCCC  
CCGGGGGGGACCGGGACCCAGNNNCCNGNNNNGGGGGGGG

Table 1

## Sequence 587

ATTGGAGCTCCCCGCGGTGGCGGTGCGGTCTAGCTTTAAAGCATCATAATGACTAATTATA  
GGTGAATAATTTTACAGACAGTCTATATTCTAGGAGGCAGCTGTAGGCGTTTTAATTGGA  
AATAAGCATTCTGAGATAATGATAATAGCAGTGTAGAAAAATGAAGCTAAAAAATTCAA  
AGTGTGAGAATCCTCCTGTCTTCTGGGATTTTTATTTAATCATCTCCTCCACAGAG  
A  
ACAAGCAGNACTTTTTTTTTTTTTTTTTTTTTTGGGGGTATTTTATGCACAAAGAGCC  
ATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAAGGAAGATCACTTAGT  
C  
CAACTTAATGAAACCAATATCCTTCGCATAC

## Sequence 588

GAACACCGAAGAGCCAGANTNTTTAAGGNCAGAGAAANCCCCAGANNGCCGAGGNACGGG  
ANAAGAACC GGGAAGGGAANGAAGGACAGGGAAGAGACCAANGACCGGAACCCNCCCNCA  
GACTANGAACAAGCAGAGGCAGAAGCCAGGCACCNGGNCNANGAANCAGACCAAAACAAG  
GATGNNAAGCNGNCNAAGGAGGAGAACC GCCGACAAGNANGACANAAAAGACGGCAGCCA  
GGNNACAGAANNNGGGGAGGCCNAGNACCCCGGCCGNNCCAGAACCAGAGGAACCCCCG  
GGCNGGAGGAANNCGANANCAAGCNNAANGAAACCGGCGACCCCGAGGG

## Sequence 589

GCAGAACAGACTTGCAGCCGACCAATTTTTGGGGGGATNAAAACCNAAANCCCGGANTNC  
ACCTTTCCACTTTTTGAGGACANTGGCCAGGGGCNCTGGGCTACCCGATGACAAAGCAA  
NCAGCACAGCATCCCGAANCAGGGGAAGAGAGGGGGCGGACANTGGCANAGGAAGGAGAA  
CCCGAAGTGTNCCACAGGCNCAACNCTANNCCCGGGGGGCGAANNCAAACCGGCCCGG  
NAANNCGNAAACACTGGAGGAACGNAAANCNCGGGGAAGCAGNCCCGGCGAAG

## Sequence 590

GCGGNGGTTTTTGGGGGGCAACACGCGGGACNGCANGCCACNGNCNAGAGCNNGTTTTT  
TGGGGGGAGAAAAACCCCGCCCCCGAACGCCGANCACCNCNGAGACCCACCTTGNCCTCA  
NAAACAAAAGGCCANGCCCGGACCACNGCCCCGGACCNGGGACAANCNGGACNANNNCN  
GGGNNAANNGNGGCCGAGNGGAACAACCATATAANAAATTNCCNCGGGNGGGGGGGGAGC  
CGAAGAANNAACNAAAAAAAAAANCCCNANANGGGGGGGGGGGANGNACCCNGCCCGG  
GCGGCCGNNCAGAACNAGGGGANCCCCCGGGCGGCAGGAANNCGANANCAAGCCNANCG  
ANACCGNCGACCNCAGGGGGG

## Sequence 591

CGCCCGGCAGGTA CTAGGTTTTATCTCTGCACTCCAAGTAGGATGAAANGATAAGAGCA  
AAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGCTTTATCAAGC  
AGAATTCCACCTGTATTTCTTAAGTCTGCCAGAGCTGAGTCTCATGGCCACCCTTAGCAGG  
AGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTAT  
TGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAG  
G  
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGA  
CAAAGA

A

## Sequence 592

TTGAGCTCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTGGCCACG  
C  
AATTAATAAATTTTTTTTTTTGTAAGACTGGATTTTGCCATGTTGTCCAGGCTGGTCT  
G  
GGATTCTGGCCTCAAGCAATTCTTCCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGC  
ATGAGCCACCATACCTGGCCACTTCTTCATTCTTGTGGCTTTCGCTNCCCGATTTAA  
AA  
TTGGNGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGNGGTCATGGGTGGATCTCATGGAG  
AGAGGGCNAGGACAG

Table 1

## Sequence 593

GTGNATTGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACATAACTCCCGCAGGATCT  
CAGGGCCTGCCGCCCCATTATGATGATGTCGAGGTTTTCATCCTGCAGCTGGAGGGAGAG  
AAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCACGAGAGTACC

T

## Sequence 594

CGAGGTACAGGTGCGATTCTGGATGACAAAAGAAGATGCTTACTTCACAGAAATTCGAAA  
TTTCATTGGGAACAGCAACCATGGCAGCCAATCTCCCAGGAATGTGGAGGAGAGAATGAA  
TGGCAGTCATTTTAAAGATGAAAAGGCTTTGTCGAGCGGCCGCCCGGGCAGGTACTTTNT  
TTTTTTTTTTTTTTTTTAAAGGAGCTTTATTGTTTTAGTAATCTTAACATAACTTAA  
AATAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTGCAATTGAGCAC  
ATTTCTTGGGTCTGTTTCTCTATCTCTAAGGGCAGTCTCAAACCCCAAGC

## Sequence 595

TCACGGGTGGCGGCCGCCCGGGCAGGACATGGCCACCAAGTAAGAATGGTTGGTGACAAC  
GACAGAAGGCTAAACAGGAAGGTAATCTTGTGCACCTGACAAATAGAAAGAATAAAGGA  
TCAAAATTGAAGGCANGCTATAANAGTATCAAAGAAATTTCTTAAAAACCAANAGTGAT  
TTTGAAGCACAAAACTTACNGTTAACTGCTTNCCCAAATGTTCAATGATTGTGGCCCA  
AAGAACANTTTGNGGCATTNCTAAANTTTAGAAAAAATTGCNNATNTGCNAAAAAATTTT  
TANAATNGGGANACACNACCTACCATTTTTTTTTTCTAAATCCNAAATTTCTCCCCCCC

C

TCCTTCCCAGAAANAGAGAAATTTTGNTNAAACCTTCAATNT

## Sequence 596

TGAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATTTAAGAAAAGAACAAGGTTAAC  
TAACTAAAAGCAGGAACCTCACTTATTTTTTGCTCCCTAGCCAATTAATAAGTTCAT

T

AAAAGCACTTGAAATTATATATTTAACCTGAAAAAAAAGTTGCTAAAATTCCAATATAAA  
TGTAATATCTTTAACTTGCTTAACCCAGCTATCCCCAAACAGTGTAAGTGGGGCAAAA  
TGTTCAAAGAAAAATCATCCAGTGACGTAAGATGGGGCACCCAAGAAGGCTAAGCCTT  
CCTTGNGCCGCGTACCCTCGGGCCGCTCTAGAACTAGTG

## Sequence 597

CCGCGGTGGCGGCCGCCCGGGCAGGACTTTNTTTTTTTTTTTTTTTTTTTGAGTTAC  
TC

TGATGTTTATTTAATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAA

G

CAAAAACAAAAGGTCTGGAGTCTTAGCATCAGAAAGGGCACCATATATACATCTACAGTTG  
GNGGCCAATACAAGTCATTGCCAGACAGTCCTTGAGGACAGAACAGCCCAGACCCAGC  
CAAGCTCTAGGAACCTCACGGGTCCCAAGGGGNTAGACCNCTTGTTCTNGATGCTCCGA  
ACCCGTAAAAAAAATGTGGGGAAGTTGATGAAGGCTTTTATGATTTACTCATTATCCCC  
GCGTACCTNTGGC

## Sequence 598

TCACGCGTCCGGGGAGGTAGTAGAAAGGCGCTGGGTGTTCTAAAATAAGGCTCTCCTGGC  
CCACGGCTGACTGTCTTCCTTGTTCTCTACAGTGACCGTGACTCTGGACCCAGACACG  
GNCTACCCACAGCCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAA  
CAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCA  
TGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTGGACC  
ATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAAT  
GGATTCTGGGCAGTGTCTTTGTGGTATGGGAAAGAATATTGGGCTTTTTACCTTCC

CA

ATGACTGGCCTACCCCCCGNGGNCCCCCGGTTCCACCGGGGTGGGGGGAT

## Sequence 599

Table 1

ATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTT  
GGGGTTCACCATTTCTTGGGGCACACTTGATTGAAAACTGANACTTCTGAAGAGAAGGCC  
AGAAGATACAAAGACAGNCCATNCCAGTTGAATGCTGTCTTCCAAGAACAGAAGAAAATG  
ATCCAGGCCCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGGAG  
TGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATGTTGGAGAACTAC  
AGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCANACCCGGATGCACTCTTTNAGTTGGA  
ACAAGGNGAA

## Sequence 600

AGGTGACACAATGGCCGAAGGCTCCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTCACC  
GCGCTTCCCAGGGGGCCCCCGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCT  
CCCTGGCTCCCAAGCCCCTCCTNCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGC  
ATCCGAGCATGGGCGGNCCAATGCAGAGGGTGACGCCTCCTCGTGGCATGGCCAGCGTGG  
GGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCTCGCCGNNCCAGGCC  
TGCCTGCCATGAACATGGGCCCAAGGAGTTCGTGGCCCGTGGG

## Sequence 601

AGCNCTNAGCTCGACGCGAAAAAAATAAATAAAAAATTAATAAATCTGTGCAATAATTT  
TAAATGTGCTCCCAGGAATAGACACAAATGTTTTGAGTATCTTTTAAGCTGCATTTTC  
C  
TTTAGTGATGCATTTGTCAATTGCACTGAATTTAAATCTGAAAGTCAGAGGTGATTATT  
G  
ATAGTACTTTTGTATTTTGATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTT  
TCCCAGCTGATTAAAAGATAGTCAAGAAATCTGCAATATAGCTGCCAAAATAGACAGCT  
ACATTTTATGATATTGTCATCTTTTCTGNTTTTTTTTCTTTTTTTCTTTAGCTATTT  
TACTTAAGCATAATAGCCACAATAGGACATATAAAAGATTATAAATACAGA

## Sequence 602

CAAGATCGGNGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGTAGGGACCA  
CCTCTAGATGCCTACTCGATTCAAGGACAACACACCATNTCTNCGCTCGANCTGGCCAAG  
CTGAACCAGGTGGCAAGACAACAGTCTCACTTTTGCCATGANTGCACGGNNGGACNCGGA  
TTCGCCGGAATNTGNACTCCAGCTCTCCAGAGGATGNAAAAGGCTANTGGGCAAAGTTTT  
TGGGATGCCATTCTANCTCATAACCCACCCANTGAACTNCAACCCNATTTCNCAANA  
NAACNTTAAAATTGGGCTTGTNAATAAANTCCNNGNGCCGGCACAAAGGGCCGGCCCAA  
CCAT

## Sequence 603

GTCCGGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAGTATTGTAAG  
CT  
GCTATGTATGGATTTAAACCGTAATCATATCTTTTTCTATCTATCTGAGGCACTGGTG  
G  
AATAAAAAACCTGTATATTTTACTTTGTTGNAGATAGTCTTGCCGCATCTTGGCAAGTT  
T  
GCAGAGATGTGTGGGAGNCTAGGAAAAAAAAAAAAAAAAAGCCCTTTTCAGTTTTGTTGC  
CACTNGTGNTATTGGGACCCGTGTAGNATTTGTATGCCAAGAATTTTCTTGAAAAAT  
GG  
AAAATGNTTTTGNNTTTTGNACCGNAGNATTCAATACNCCGGTTAAAAGGCANGGNAAAT  
TNGACCAAAAAGTCTTTGGCTTTTTTTCTTGGGTAATTGNTTTCCTAAANGNTGGTTA  
T  
NTTGGTGGANCTTTTTTTAACCTGGTTAATAANTTTAAATNTGGCCCCAAATTAATT  
A  
NAGGTTTAAAAAATNATTAAGGNAATTTA  
A

## Sequence 604

CCCGCGTCCGAGACAATACAAAGTTACATTTTTGGACCATATTAAACTGCAAGAAGACA

Table 1

GGGGTCTTACTGAAGATCTTTTAGAAAACCTAAATCCTGTCACAGGATATTTAGACATG  
T  
GTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGAGGGTGAAAGTTGAAACTGA  
CACATTTTCAAATTTAAGATTATGCTTATTTTGTACAGAAAACAATGTTTAAACACCANA  
GGCAGNATCTTGTTGTANTGTATATAAACGCTAACACCAGGAGTTTTTTAAAAACCANAA  
ATTTAAATTTATTTTTANGCTTTTAATTGGAAAGGNTTGGTTTTTTNTTTTTCCTTTCC  
GAAACCCTGGGAGTTATTCAATTAATTTAATTAATAAACAGGGTNAGTTTTTTNAANACC  
C  
NAAGAAANTTAAGGCCAAGTTNGCCCCCTTTTTCTTTTTTTTTGNTAACCATTACCTT  
G  
GNATTTTGGGGAACC

Sequence 605

CTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCTGGCCAGATCACC  
TGAATCCAAATGTTCTATTAATTCAATACACGTTATCAAGTCAAATCCAAGCAAACGAGA  
GTCTCTCTCCACAACGGAGCCATGATAAATGTGATGGTCAAATTCAGATCCCGAGGTTT  
CAGAAAATCCCCCAGGAAAGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATT  
AATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGCAGCCTTAAGAGTGA  
AGTATCACCACATCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATCCACTAAATTTT  
T  
AACGAACTGGTACCTGCCCCG

Sequence 606

CTNCCGCGGTGGCGGCCGAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTG  
GTTTAAAAATAACATTGGAATACAGGACTTGTTGCCAATTGGGTAATTTTCATTAGTTG  
T  
TTTGTGTTGTTTGATTTGAAACCTGGAAATACAGTAAAATTTGACTGTTTAAATGTTGG  
CCAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTG  
CCACCGGTGCAGGTCTNTCCGNTCATCAAGCT

Sequence 607

CGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAA  
TTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAGACTGTTCCAAAAA  
CAGTGGATAATTTTGTGGCCTTAGCTACAGGAGNAGAAAGGATTTGGCTACAAAAACAGN  
AAATTNCATCGTGTAAATCAAGGACTTNATGATCCAGGGCGGAGACTTCACCAGGGGAGAT  
GGCACAGGAGGAAAAAAAAAAAAAAAAAATAAAAAAAAAAACGAANGGTACCCTCNGGCNCGTT  
TTTAGNACTAGTGGGATCCCCCGGGGCTGCAGGGAATTTCCNATATTNAAAGCTTTTAT  
TCTGGANTACNCCGTCCGGACCCTTCGAAGGGGGGGGGGGGGCCCCCGGGTNACCNCAAGCC  
TTTNTTTGGTNTCCNTTTTAGTNGGAGGGGGGTTT

Sequence 608

TTGAGCTCCCCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACACAGACCTG  
TCGGAAGGTCTCTGCAGGTCCCCCTTCCGCTCTGCCGATCGACTTCCGCCTCGGGCAGT  
CAACATACTGCCAAGGAAATCTGATGTGGAAAGGAAAATAGAAATAGTGCAGTTTGCTAG  
CCGGACACGCCAACTCTTCGTTGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGG  
CAAAGTGGAATAATGTGCGATGATTTCAAGCTTTTATAGATCAGCAAGCCATCCTGTTTGT  
GGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCCTGCC  
TAGTTTTGCCATCCCATATGCCATTGATGTACCTGCCCGGGCGGCCGCTCTAGAACTAG

Sequence 609

CGCGGTGGCGGCCGCCCGGGCAGGTACTTCCGCCTTGCCGTTAGCTTGTTGAGAACGTGC  
TTCTTATTCTGTCAGGCTTCAAGAACAGCTGCACATGTGCCGCTAACTGACCGCGTTGC  
CATTGGCGACCTGGACTCTGAACTCAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGA  
GTGATGAAAGGGGATCAGCTGTATTTGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTA  
TGAAACCCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTATTATATTATATGGA



Table 1

AAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCA

Sequence 610

CCGCGGTGGCGGCCGAGGTAAGTGGCTTTTTTTTCTATTATAAAAGTGATACTGAAATAT  
GCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGG  
TTTTTAATATGTTTTGATAACTTTAATAACTTCAGGGTGATGTCTGTATAATTTTTAAAG  
TGCAGCTCTCTCTAACAATGTGCCCTACAACCTCTGATTAAACCGGCGTCTTGAAGGTT  
CAAAAAAAAAAAAAAAAAAANGTACCTGCCCG

Sequence 611

GTGGCGGTGCGAGGTAAGTANGAGAAATTGGCATGCTTTGCTAATNTTATGCAGAGGTAA  
CCATGTTGANNACATATGTANTGTTGAGAGGNATGTCTAATTTTATGGTCNTAGGAAAAA  
TTAAAGAAAAGTCTGCTTTCTGAAAGTCTGAAATANAAATGTTTACAACCTTGACNAGG  
ATCCATTTGGTGGCTAGNCTCGCCTTCAGGGNGGNAAAGAGAATATGCCAGTTCTGTNG  
TATGGACTNTTCACANAAGCTAAGGNAGGGGAGTTCTTTCTTGGTGGNGACAAGTTCC  
TGCNCACTTAATTTTTCCCTCTGCTTCNAAACCTGGGAAA

A

Sequence 612

GAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAGAAGATGCAGTTCAAAATACTG  
CCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACT

T

TTCTCACCACACCCACCTTCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGA  
ATCCACTCTCAAGCTTCTCATGCAGTGCCTATTGTATTTTCTGCATAAGAAAGGGCTGCC  
TCTAGAACACAGTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGT  
ATAGTATACCAACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGTATGNTG

G

TTTCTCACTGTTATCTTCTTCTCTATAATTAATTTATTTAATCTACAAATTGACATAG  
GGCTAAAGCTTCAATATTTTACAAAATATTAATTAATGNAATTGGTCCCAATTATTA  
GAAACTTTTTTNCATTT

Sequence 613

AGGAAGNCCACTTTTGANGAGGCCATTNAAAANCNAACGGNNATGANCCCCCACCANNNC  
ACTCNGAGGGGGAGGTANGAGNANNNCACCNNGGGGGCCCGNCNGGGGAAAGGAAAGGCN  
AACNCCACGNCNGGGGCCAANGGCCNCNGCNGGGNANNNACNNNACGAGAGGCCACCNN  
AACCAAAGAGCGANANGCCCCGGGGGNCNCAAGAAGGGCNGCACACAGNACCTGCCCGGG  
CGGGCCGCNCAAGAACNAAGGGGGAACCCCCCGGGCCNGGCANGGGAANNCGAAAAAAC  
AAGGCCNNAACCGAAAACCCGGGNCGGACCCCCCGAGGGGGGGGGGGGGGGGGGGGGAACC  
CCCAAGCCNNNNNGGGNCCCCCNNAANGGGAAGGGGGGGAAAAAANAGGGNNCCGCC  
CANGGGGCGGNAAAACAAAGGGGGGNAAAAAANGGCCCGGGGANACCCCCGGGGGGGG  
GAAAAAANAGGGGGNAAAANCCCGGNNNCAANAANAANNCCCCACCCAAACCANNAACC  
GNAGNCCCGGGGNGGCAAAAAAAAAAAGGGGGGAAAAAAGNCCCCGGGGGGGGG

Sequence 614

CCAGAGNTAACGAAACATTCTTTATAAAGGTTTGAACCCNCNGTTTNAAGCCAANACCA  
TAATTTAATTACAAANGGATAAATATGGTAACGGGTATTTACAGAAGGAAGGGNGTTATT  
ACGGAAAAAGCTAACGGCACGACGTTTATTTTTCCCCACAATCTTTCATACAGGAATA  
ACAAANTGAAGTGTGAAAAGCACTAAACATCACATGTAAACCCAGCTAACAGAAAAATA  
CATTCACAAGCGTTGNTGGTGGGGGTGNGNATNGTGTGNGCTAAGGGNCAATGGGCNGAA  
GAAACAGAAGGGAGACTNTGGCACGGCTCAATTCTTTCCAGNCNANAGNTACATGGAAGG  
TTACAANCAGGGTGCCCCANAAAAAAGGNACACCACTANTCAATACCCNCCAATACAAAA  
AGAAAACCAATNTTCTTCNCCANTACCTAAAAAAGGAAACCCGGGGTAAAC

Sequence 615

CGGTGGCGGCCCGCCGNCAGGTAAGTTTTTTTTTTTTTTTTTTTAAATTTCCATGTAT

T

Table 1

NGCCTTNATCAAACCTATAAGCTGNGGAGTGGCCAATATACTCCATTGNGATTATACACTG  
ATTTCCATCACCTGCCTTTTACTATCAACTCTTATTAGA

## Sequence 616

CGGCCGAGGTACTGTGCCCTCTTTCTTACTAGGTGACCGAGAGTGGTTTTGACTCCTGTG  
GGTGCTTGAAAGTCATTCTCAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACCTCT  
AG

TTTCTTCTATTTTCATCATCCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
G

TNTCTACTTTCACATCAAGTTTGAAGAATGCATTTCTCTTGNGGTATTCTGTTTTTTGAA  
CTTACTTCATTGGAGAAGCCCCCTTGATTTTTCTTCTTTATACCAGATCTGGCTTCACG

A

AAGCTGCATTTAGGTACCTGCCCGGGCCGGNCG

## Sequence 617

GTGGACGAGGGCAACCCNACTAGCCTAAAAGCCCCGTGACACTTGACAGCAGGTGCTTGCCA  
CGCTTGCACCCGTCCGAAAGAAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGGCA  
CCCAACCGTGCAANTTGATGGTACCCCAAGCCCAAGCGACTGGNAAGATGTCTTTGNA  
AAATGAACCGTGGAANCTTGGCTTGGAGCCCGANGTTCCGCGTGCCGGCCAATTCAAGCA  
AGGTGGCAACCGGGACTTGGGCCGTTCAANACCCGTGGACCGTTCAANATTCACCAACCA  
CCANTAGCACTNAGTATTTGGCCATTGGCANAAAAAGGGGAATTGGAAAAACAAACGNT  
NCCCCGNNTTGCTTTGGNGGGNGCAAATTCNCNGNGCAAGGTGCGCCCTNTAACTAT  
NTTTTAAANAAAAAA

## Sequence 618

CCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCTGAGGA  
GCCCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCT  
CTTGACATTTCTCGAAAATGGGAGAAGAAGATAAAATTGTTTATCCTCCACAACCTGCCT  
GGAGAACCTCNGCCAGCAGAAATCTACCACTGTGGAAGACAAATAAAATATAGCAAAGAC  
AAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCAGGCCTTGGCTCAG  
TTGGAATTCATGACAAAAAGGGGCCAAAATAATTAAGAGGTTCTTTAGAAGCACAA  
GATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTTGAGTC  
CACCTCGGGACCGAGGCCAGTGCCTGAAACGCATTCCGCTCCATGGCAGAGGTGCGTTTG  
GGGATCATGGAGAAGGTTTATTGGCATTATTTGTGAAAGTTGGTGGGAAGGGCCCCCAC  
CTTCACCTGAGCCACAAAAGACGGCAGTTTGCCCATGCCAAAGAGTATNTTCAGCAGCT  
TCGCAGCCGGACCATCGGTACACTNTTATGATGAGGGAGAATTNAAGACCTCCACAGNG  
NATTATATTTTGGCATTATTTTCTAAAAATAAACCAAAATTTGGAAGCCAAAAA  
AAAAAA

## Sequence 619

TGGCGGCCCCGAGGTACCTACTATGTGTCAGCCATGGGGGGATACAAAGATCTATAAGGCA  
CAAGACCCTCAGTCTTGAGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGG  
ACAATGGTGGGAAATGCACTCAGGTCTTCCTAATGCACAGAGTATGCTCAGGCTGTGACA  
TCNGAAGAAAACAGATATTTACCTTAACACGGAAGTTGGAGGACCTTCAAAAAACAGTGAT  
GGGAGGAAATCCAGTTTTAAAGTCTTGATTTAAAAAAGAAAACACTTTCTGTGGATA  
AAGATAGGCTGCAGGAAATGTAACCTATGAAATTTCTCAAATTAGCTTTCAAACACACA  
CAAAAAATTGCATTTGTTTGAGGAGCAGAATGTAACCTATATTAAGAATAAACTACTA  
T

TTAGTATCTGAGTGGAAGTACCTGCCCGGGCGGNCGCTCTAGAACTAGTGGGATCCCC

## Sequence 620

GCCGCCGGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAAGATA  
GATGGAAAGAGAAGAAATTAACCTAATTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAA  
ACACCAAAATTAACAGCCAGTTTCTTGATTTTCTTCTTGAAGAAGAGATTGGTGTTGC

T

Table 1

ATGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTG  
AGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAAT  
GTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCTTCCTT  
ATTCTCAAAGTTCTTTTTGGTTTGCAACCCCTTTTTTTAGTAACCTGCAGAGGTATAAAC  
T

GATTGTGCACACCCCCTGGTATTCCCCAGCCATGGGCATGGTCCCAGAATATAAAGTAT  
GATGGAAGGGCTTCCAGG

Sequence 621

GGTGGCGGCCGAGGTAAAGGACGCCTGCCCATGACAGAGCCTCAGGAAATCGCGATGACA  
GTTTACAGCAGGAAAATCCGTGGAGACAGCAGATCCCGAGAAGCGGCGATGTTTGCGTAG  
AACCTGTACCTGCCCCG

Sequence 622

CCCGCGGTGGCGGCCGAGGTACATTTATTTAACATAAAAGGACAATAAGTTTACTTTGTA  
TCTGAACTCAAACAAAGTAGTTGTATATTTAACATTCAAATTGGGATTTCCCAATG  
T

GACACATCATGAATGCAAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATC  
TGTGTATAGTATATAAACATGTAAATAGGTTGTATTTTACTCTATGTATGATGCTAAT  
CAATGAACACTTTATTTATTTTACAGAGAAAACCTATCTGTGAACCTTACTATATATCTG  
NTATTTTACCTTTATTTTTTTTTTAAATAAAAAAGGGGTTT

Sequence 623

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGGTCTGGCTAGC  
AAAAAGCTGGCTGTGTTATGTAAATAAAGCCCCTATAGTAATTAATTTAAAAAAGTT  
TTTTAAGCTGGCTGTTTTCCTACCACTTCAGAGTCCTTGACCCCGTAATTTAGGGTCC  
CC

TTCAGATTTGCAGACAGAAACAAACAAACAGTTAAGCAAACTAACAATGGTCACA  
CAAATTATACAATTTCTGAGTGCTCTAAGTGCAATTGGAAGAAAGCTGAACTCCATAAA  
ACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTGCCTTCTTGTGGGAGCAAG  
TAAACTCCAAAAAAGAGGTGTTGTACCT

Sequence 624

CCGCGGTGGCGGCCGAGGTACGGCGGGGAGCCGCTGGATACCGCAGCTAGGAATAATNG  
GAATANGACCGCGGTTCTATTTTGTGGTTTTCGGAAGTGAAGCCATGATTAAGAGGGA

Sequence 625

CTCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACTTTGATCTTCTTTGAAATGTGGTT  
GTCCACTNGCTTTTCTGTTTCTGTACAGTAGCTATAAACAGCTGTTTAAGGATATCCT  
T

ATCTAAATTTCTGCCAATGAGGACCAATCGATTTGTTCTCTCAGTGTCATCCTTCCAGC

T

CACTGGAGTCTCCTCNATCATAGAGCTCATCCCGCGTACCTCGGC

Sequence 626

NCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATGAGTCCTAGGAGGCGCTGG  
CTCTTTGGCGGCTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTG  
CAGATGTATTGCTGTCTTGAATATTAGCCATTTGAAAACGCCTGGGAAGTTCAGCCAT  
CAGTATGTCAGTACCTCGGC

Sequence 627

CCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAA  
AATGTCCAAGATAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTC  
TGTTTGTGACCTGTTTTAAATGAACCAACCAATCATACTTTTTCTTTGAATTTAGCAA  
CCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAA  
TTTTGNGATTCTATAAACACATCATCAATAAATAGNGGGCAAAAAAAAAAANNAAAAA

Table 1

NNNNGGGGTNCTCCCTGATAAAGGGGGAATTTCCNTGCCCGTCCACGGGGGGTTGNCCCT  
GGAAAAANTTTGTTTANACCCCCGGGNTCCCCTTNTTTTTTAAAAAAGGGGGGGGCA  
ACCCTTTTTTTTTTAAANGGGGGGNNTNNCCCCCGGGGGGGGGGGGANTTNCCCCGGG  
GGGNTTNTTTTTTTTTTTNNAAAAAAGGGGGGGGGGNCCCCC

Sequence 628

GGNCGCCGGCAGGTACGCGGNGGAAGACGGAGGCGGGTTCTACAAGAGACGTAGGCTGTC  
AGGGAAGTGTATTTATTCGCGTCCGCTTCTGTTCTCCGCGCCCCTGTGCTGCTCCGACTC  
ACATACTCGTCCAGAACC GGCCCTCAGCCTCTCCGCGCAGAAGTGCCGGAGCCATGGCGGT  
ACCTNGGCCCGNTCTAAACTAAGTGGATTCCCCCGGGCTGGAAGGAATNCGNATTAAAG  
CNTATNGATAC

Sequence 629

CCGCGGTGGCGGCCCGAGGTACAGACGACGTACCGTATATCTTCTTTTCGGCCAGTGGA  
GGATATCACCGAAGAGGACTTAGAAAATGTTGCCATAACTGTTGAGATAAAATCTATGA  
TAAAGTTCTGGGTAACACGTGCCATCAGTGTGACAAAAAGACCATCGACACCAAGACAGT  
GTGTCGGAACCAAGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTC  
GTGGGATCTGCAATTGCAGCTACTGTGCGAAGC

Sequence 630

CGCGGTGGCGGCCCGCCCGGGCAGGTACATAGTGTGCGAACTCAAATCGGCATTAGAT  
AGATCCAGTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGT  
TTACAAGTTAAAGCTACAGAATCCCTTTTGTCTGTAATTGCACCAGTTTTAAAGCCTCT  
G  
GCAGAGCAGATTCTTTAAACTTTGTTTTCTTAAAGCTTACAGTGTTTGGCTAATT  
C  
TCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGATA  
CTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATTT  
TTAAACTGTGTGAGATATTAACCAGCCCGCCCTGTTATAAAATCAGGAAATCCAAACAG  
CGATTTACACCGATTAAACACCCCCCTTTATATATTTTTTACAAAAATACACTGAGAAAATA  
ATCAAACTTTTTATCTCTCTTGTCTTTTTTTGTTTTTAAAGTGTCAAAGTCTACAT  
TTAAATATAAAAAATTAAGGTTAAACTCTAGCCCTTCAGTGAAGGAGACGTAAATGG  
CGTGGGTAACAACAACACTACCAAAAAAAGAAAAAAGAAAAAAGGAAAAGGAAGG  
AATAAGAAATAAAGGAAGTAAAAAGAAAGGAAAGAAAAAAGG

Sequence 631

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCAGCTTGCCTCAAGTCTGGAAGAAA  
TTGGCTTGGGCTCATCAAGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGTAATACT  
CATGTGGCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACACTG  
GCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTCATCGTTGCAACGAATCT  
TTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGAGAAGTGCAAGGAATAGCAT  
C  
TTTGCTTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAAATGTTAAAGTC  
ATTGCTGTTTGCCATCGTTTGTCCATCTCTTCTACAACAGGTTGCATCTTT

Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAACAGTAAATCTACACAACCTTT  
CACAGAGAGTGTGTCCGCACACATTCACCATCAGCTTCAAGGAGGGGTTCCGATATTTGG  
TGGTCTTACACCGAGGGCAACCCTGATCGTCCATGGCGGTTTCCCTCCTACAGACTCTCG  
CAGGCGCCTGTTTCAGCCAGAGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGT  
CCCAAATTACCTCTTCATTACCCAAATCAAAGAATCTTCTGTTTTCCCAATCCTCAA  
A  
GGAATGAAGAAAAACCAAAGAGCAAACCTCAAAGATGATTTTTACCATAAACCTCAAATG  
TGGCTTAACAAGTACCTGCCCCGGGCGG

Table 1

## Sequence 633

GCCCATTTGNTGTTTGTGTTTGTGTTGAAGACCAAGACGGAGTTGGGCCTCTTGATTCCC  
AGTGGCTGCAAGAACTGGGATTCCCTCTCCTTCTCTCTTCCCCTCTCCCCCGCGTACC  
TGCCCGGGCT

## Sequence 634

GAGCTCCCCGCGGTGGCGGCCGCGGGCAGGTACTGAAAACCACTTCCAGAGTCTAAAG  
CAGCTCAGATGTTATCTCTGGGGGAATTAGTGTTCCCCTCATTTAGCAACCTCCATACCA  
CAAGGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTC

A

TAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCA

G

TTTTCTTTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGT  
ATATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATAT

A

TTTATTCTAACTCAGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTTAGTTTGCCT  
CATCTGTAGAGGTAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATTTTACAGG  
CACAATTTTCTGGCTGTAGTCCCTGGGGCATTTCATTTGCTGGCCTCCA

## Sequence 635

NCTCCCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGTCTCTTA  
GACAGAACTCACATAAACACACAAATACAAGAGGTTATTTTCAAGACACACACTTGCAAG  
TAATCTTTCTATAGAAATGGCCACAGCATTATAATATTCAAAATATGGAAGATTGCAGT

C

TGAGGATTTTTANGAAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGAT  
ATGACAATCTACAGGACAAAAGACAACATGTCACCAAATATTGTTTCATACAACAGCGTT  
AATGGAAAACAGTAAACACCTTTTAGCAGTGTGCATGTAAAGTCTTTTAGTAAGATTA

T

CTGTAATGAGGTTTGAAAGTAAATCACTTAGTAGACAAAGTAAACCACCACAGAACCGAGG  
AATAGCACCCATCACTGCTGCTTTGTCACTCCAGAAAGCTGAAAGTCAACCCGAACAATG  
AAAAAAGTCAAAGAAGCATTTCCCTTTGAATTCAGTCCTAAAAATATGAATGCCTTATA  
ATTAATTTCAAATAAGTATCTTACAAGTGTTTCATGAAACATTGGTTTT

## Sequence 636

GTGGCGGNCGAGGTCTAAAGGGCAAGGTTCACTACTACAAAAAGGAAGTTGTCTAAAAGC  
AAGAATTCAATTAACNGCTGGGTAAGAAAAGTCAAAACACTAATGAGTTGTCCATGAAGC  
CAACTGCTAAGAACGCGCTCACTATACCGCCGACATTGAAGACACTACGCACGAAGCCT  
TACTTGGCGAGTCTGAATTTCTATTAATAAGGGCAGAGTGAGGGAGAACAAAGAGCCTA  
CTTCCGTAACATTTTAGTATCCAGATAGTACCTGCCCGGGCCGGCGCTCTAGAACCTAG  
TGGGATCCCCCGGGCTGCAGGGAATTCNTATATCAAAGCNTTATCGATACCCGTCCGAC  
CTTNGAGGGGGGGGGCCCCGGTACCCAGCTTTTTGTTTCCCTNTTAAGNGAGGGGTAA  
ATNTGCCGCGCTTGGGCNTAATCATTGGGNCATAGGCTTGNTTCCCTGNGGTGAAAAA  
TTGNTTAATNCCGCTTCACAANTTTCACCACCAAACCAATACGGAAGNCCGGGAAGCAA  
TAAAAGGTNNTAAAAGGCCTTGGG

## Sequence 637

AGCTCCCCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCACAGTTTGGAACAACAGCAG  
AGATATATGCCTATCGAGAAGAACAGGATTTTGGAATTGAGATAGTGAAAGTGAAAGCAA  
TTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAG  
CTAAAGTGCAAATTTCCCGAATGTGTGTTGCCCTCAACCATGTCTGCAGTTCAATTA

G

AATCCCTCAATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTT  
CATATAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTGCAAATCTAAGTTAT  
GGCCTCGCTGGGCTGTATTCCTTATATGATGCTGAGACCTTAATGGACAGAATCAAGAAA

Table 1

CAGCTACGTGAATGGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCAATAGA  
TTTTCTTACCAGAGTAGCTGGCTTGNCTTCCTAATGATGATGNATTGAGAATTCAGCT  
T  
CTTT

## Sequence 638

CGGTGGCGGCCCGCCGGCAGGTACGCGGGAGAAAACCTAACCTTCATTTACTGTGAACA  
TCTTCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACAACACACAGCAAGACCAAGCT  
TATGCTGAGTTGACGGAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCT  
GAAATTGTTCTTTCTTAACTTTTGCATTAAATCACATTTATTTTATAAAATAATGAAAA  
AA

## Sequence 639

CCCCGCGGTGGCGGCCGCCCGCNCNGGTACATGGCCCTTAATNCCATNAGATTTGTAGA  
TCTTAACCACGGCAGGTCACCGAGGCCTCGGAANTCCCTTTNAGCTCCAGCTTTACCCAC  
ATCAGCTGCTAGACGGGTACCT

## Sequence 640

AGACGATTGAGCTNCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGGCTGTCTCACCGG  
TGAGACCTGGAAGCGGGCGAGTCTCGTGCTGTGTGCGGACCTGCAGTCCCTGGCCTTCCGC  
CACCATGGAGTACCT

## Sequence 641

CCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGG  
AACATTGCTGTGGATTCCCAGCTTTCAGACAACACATGACTAAGACAGAATGAGACCACT  
CTAGTTGCCTCATGGGAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTG  
GAATTCTGGAGTTATAAGGCAGAGGTCCCCCATCTTCCCGAACTGGCCTATTCCGCTAGA  
AGCAAGATGGCTGAACCTCAATACTCATGTGAATGTCAAGGAAAAGATCTATGCAGTTAGA  
TCAGTTGTTCCCAACAAAAGCAATAATGAAATAGTCCTGGTGCTCCAACAGTTTTGATT  
T  
TAATGTGGATAAAGCCGTGCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGA  
A

## Sequence 642

TCCCGCGGTGGCGGCCGAGGTACTTGGAGAATATTTCCACAATAGCCGATGACTTGTTC  
TGTTGACAAGAGAAAAGTTCTTTGGCTGTTACCTCAATGATAGTGAGGTCCATTGCCGTC  
TATTAATGGAGATGATTCCATCTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGC  
CTTCTCTGCGCTGCTACCAGCCCTGTCACAGGTCCCGGCGCTCTACCTCCCCGCGTAC  
CTGCCC  
G

## Sequence 643

CCCGCGGTGGCGGCCGAGGNACNAGAAGCTCACTGGCTGTGCTAAACCAAATGAATGGAA  
AGCGCCAAAAGTGATTTTATACCAAGGNCCATNCATACAAATAAACAAAATCCTATCCT  
CTTCTTTCTATATNNTNTTTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTAT  
TCACTTCAATAGGACAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCC  
AAATTTTATGCTTATTTTGGGTTAGNCGCTATCAATTTTCTGACATATTAACATAGGCA  
GGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAAATGTCTTGAAGCACTCTGGCA  
AGTTACATGTATCCCATGTTGCTTTTGGNTTCCCATCTCTTCTTTGCTTCAAACCCCA  
T  
GCAAGNTTTTTNTTTTTTCGGGCAGNCTGTGAATTTTCAACCTCCTTTTT

## Sequence 644

GAGTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTCTCCCAAGCAAGCAGTGAGGT  
GTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCCAGGACATCCTGTC  
CGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCTAT  
CTCTCTGGACTCATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTC

Table 1

CATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCACGTTT  
TATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGACTTTTGAAGGAAGCTGCAAA  
TTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACGGTCAAGTTTTTC  
AAAACCTAGCAAAGATGCTTCCAGATCTGTCCCCGTCTGTGGGAGACGCCATCTTTCAAC  
CCATGTCACGTCCCCGCGTACCTGCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAAG

Sequence 645

CCGCGGTGGCCGGCCGCCGGGCAGGTACTTCAGGGAGGCCTATATATTGGCACCCAAGG  
AATGCCAGGACTGCCACCTGCTGCTCCAGCGTTAGCCTCACTCGTGTGCTTACTCACTTT  
GACTGCCTTTTTTGTCTATTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAG  
CAGATGGCCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCTACA  
AGAAACAAAGTCATGAGAAATGCCAGGCTTCCTGTTACACCCAAAGACTGCTGGCCCTCC  
TACTCTATCCTTTAGACCAGAACTTTTTCTTCTAAGCACTTGCTTACCGGGAAGGTT  
GA  
GGAGTCTTGTTTTACCGTACC

T

Sequence 646

TCNCGCGGTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCCTTCTTGTTGGGCACTGTGT  
ATGGGCGGAGAAAAATCCANCTTGTTCTTGCTGATGACGCAAAGGTCAATGTTGCTTCCGG  
AGCCCAAGTTCACTGAAGATTGCCANNTGCCGATGGCTTCGCTCACCANGATTCTNNGCT  
TNCTNCTCCTCCATTGTCTGGCCTAACTTTATCTTCAAATACAGACCATTGCTTGCTC

A

ANNGAGACCAAGAAACCCATNNGGTGACCACTAAGGGCAACTTATCAGNTTTGATTNCAT  
GAAGGGATAGGATGTCTTGATTAGGGTNGGAGAGTCCCAGGTAAATCTATGCTACTNCC  
CCCCTTAANAACCTNAGNNTCTNGCAACCCAATTNTAAACNNTTGNATACNCTTGAAAA  
AAGGCATTCTGNCTTTNAGCNATCCGATTTGGCCTGTNCACAACTCTGGGGGAAAGAC  
TGGTCCAGTTGNNAGAAGGGGAGTTGGGAGCNTCCAGGTTTGAAAAAGNAAA

Sequence 647

CTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGAGACACGCC  
TGGGTGACAGAGCGAGAGAGACTCTAAAAAAAAAAAAAAAAANGAAAAAGAACTGTTGAGGGA  
TACACAATATGTCAAAATATTAAAGCTTTTTTTTAAATTGGGAACNCTCAGGATAATTGG

G

ATAATTAATTAGGCAATGATNCAAAGATGTTTTGTTTTAAAATTCANAACCCNCCAAAG

G

TNNAACCNNTNGNAANAATTTTTTGGGTTTCCCCCCCCCNNTTTTTTTTTNTNNNCC

C

CNTNAAAAAAAAAGGGGGGCCNNCCCCCNNTTGGGAAANNTTTTTTTTTTTNNNNGCC  
CCCCCNNTNTTTTTTNCNGGGGGGGTTTTTAANAAANGGGGGGNAAAAAAAAANNGNGN  
GTCCCCCCCCCTCNNNNAAAAAAAAAAANANGGGGGGGGGGG

Sequence 648

TGGCGGCCGCCCGGGCAGGACTTTNTTTNTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTT

NATT

TTT

TTTCCNGGGGAANNCCCCNTTNTNNGGNNTTT

CCCCCNNGGCNCCNANANGTNAANCCNNCNNANCCNNGGGGNNGGGGNCCNCCNNNNCCC

NNNNGNNGNNNAANNNGGNTNNGNNGGGNNGGGGNAAAAAGGGGGGGCCNANGGGGNCCCC

NCCCCNTTTNCTGGGGGGNNAAAAANGGGNCCCCCCCCCCCCGNNAATTTNGGGGNNTT

NAAAAANANGGGGNCCCCCCCCNGGGGGGGGGGNNAATNTAANANAAAANTTTTTNTNCC

CCCCCCCCCCCCNNGGGGGGG

Sequence 649

TTGACTCCCGCGGTGGCGGCCGAGGTACACGATAGGAAGAATGTATATTCTGTGGTTGTT  
GGGTGGAGTGAATGTCTATGAGGCCCTGACTTCTTTCATTCAGGAACACAGATTCAGAG

Table 1

CTTCTGCTGTGCAGTAGGGGGCATCAATAGTTCATTTTCTTTTATTGTCTGCTACCAT  
T  
CCATTGTATGGATTCAACCTAGTCTGTTTATTCATTCTCCCAGGCTTCCACCAGGCC  
AT  
CTCTTCACTTCGGGGGCACCTTTCCCAGGGAGATGAAGAGACACAGGTTGGCCTCTGCT  
GGGACTCCACATGTCTCCCCGCGTACCTGCCCG

Sequence 650

TTGACTCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAAGGTAAGAAACACGTTGAT  
TAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTT  
CAAGGATGTCCCTCTGACTGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCAT  
GTTCTCCAAGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCT  
C  
CTCCAAGGGAAGCAGAAAGAGTGTTTTGGAAGGAATCATAGCCTTCTTCAGTGCCTAGTA  
TAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCACTGTGCCATC  
AGGTGAACTTCGTCATGTGGAAGGCACCATTATTCTACACATTGTGTTTGCCATCAA  
TT  
GGACTATGAACTAGGCAGAGAACTCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATT  
CAATAATAACTTAAGTCCCTT

Sequence 651

GACTCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGTGTCCAGCCCCCTTCCTCT  
TCCTGGAAATTAACATTGGCTCCACCTTCCAGCAATTGCTGGACCAGGTCAACATCTTCG  
TTTTGAACAGCTTTAATCAGCAAGTGATTGTCTTCCACTGCAGCCCTTCTACCGCTGGAG  
GACGTGGGTCCCTCCTGGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACC  
TGCTACCACTTTTAGCCTTTTCCTTGAGAAATGCAAATTTATCTCCTAGCACTTAATC  
A  
AAGAAGCTTTGAGTGTAATTGGGATTCTCTGGCAACAGAGCAGCAGTATGAAGAAGGAA  
CAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAACTCAAGACGTCTCAATTATTCCT  
T  
TGGCAGCCGCAAAGCCTGGAAGACTGCTTGCAGCCCGAGCAGTTTCCTCCTGCTGCCCCC  
GCGTACCAGTGAGGAAGGA

Sequence 652

TTGAGCTCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAGGGCCAGGTCTCAGGG  
CTCCTGGAGCTGCAGGCGGCGGGAGGGGCTACAAATGCTTGAAGTCACTGATGCAGAACCT  
TTCAGAGTTAGCTGGAAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGT  
GAAGAGGAGACCCCTTCCCTCTTGTGGGGTTTGGATCCTGTGTTTCTAGCCTTTGCAAAA  
CTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTGCCAGGTGTATTTTTG  
TACCT

Sequence 653

TCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTGTGAACTGAGGAATTATAGATAAACCTT  
AGGTCAAATCATTTGCAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACA  
GAGAGCTTTGTCTAGTTTTTGTCTTCATAGGTCAAACTGGCAATATTCTCTTGTCT  
G  
CAAGATAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAA  
TTTCTGCTTCATCAGTTTCACATGTTTCATGTTGTCACTGAAAAATGCATCTACTGTTT  
A  
TAGCTCCCAAGGAGACCCCAAATCCTTTTTTTCTTTTGGAGTGGAGTCTTGCTCTTGTT  
G  
CCCAGGCTGGAGAGCAGTAGCGGATCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCA  
AGGTGATTCTCCTGCCTCAGCCTCCCCAGTAGCTG

Sequence 654

GACTCCCGCGGTGGCGGCCGAGGTACCTGTTACCCTTTCAAAGTAAGTTCTCCATCCC



Table 1

ATAAAGCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAATGTGAATTCATCTG  
TTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCA  
GAATACTCCTTGGTCAATTGTAGGTATTCTTTTGGTTAATTTTGGCAATGTAATTAA  
AAAATGGTATGTCATTTTAAATTTGATTTCTTTCATTACAAATAAGATTGTTATGTC  
AGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTCTGTTTCATTGTTTTAC  
CTGTTTTCTGTTTTAGCAAGTAAGTACCTGCCCCGGGCGCGCTCTAGAACTAGTGGGAT  
CCCCCGGGCTGCAGGAAATTCGATATCAAAGCTTAATCGATACCCGTCGACCTCGAGGG  
GGGGGCCCGGTA

## Sequence 655

TNCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGGCCATGGACTGGAAAGAAGTTCTT  
CGTCGGCGCCTAGCGACGCCCAACACCTGTCCAAACAAAAAAAAAAGTGAACAAGAATTA  
AAAGATGAAGAAATGGATTTATTTACAAAATATTACTCCGAATGGAAAGGAGGTAGAAAA  
AACACAAATGAATTCTATAAGACCATTCCCCGGTTTTATTATAGGCTGCCTGCTGAAGAT  
GAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGC  
AGAGAACTGTTAGATAATGAAGAATTACAGAACTTATGGTTTTTGCTGGACAAACACCAG  
ACACCACCTATGATTGGAGANGGAAGCCGATGATCAATTACCAAAA

## Sequence 656

CGGTGGCGGCCCGCCGCCTGGTACGCCCAAGGCATTTAATGCCACAGTAACAGGGCTGT  
TTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGC  
ACAAAGTTTGGTCTGTTGCATAATTGAATTTTAACTCTTATCCACAACAAACACTTT  
TTCGTGTCCTGCTGTGTAAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCAT  
NCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG

## Sequence 657

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCCAATGAAGAATTTCTTCATTCTGA  
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAGCCTCGAA

## Sequence 658

CACGGGTGGCGGCCGAGTACCTTGTGGGCATTAGGTCANTNTTGTATACACTTTCACAA  
AAGATTTTATCTTTGATCTCTTGGCGATCTTCTTCTTGCCCATGGCAGCTGTCACTTTG  
C  
GGGGGTAGCGGTCAATTCCAGCCACCANAGCATGGCTTGTAGGGGCNATCTGAGGTGCCA  
TCATCAATGTTCTTAACGATNACAGCTTTGCGTCCGGAGTAGCGTCCAGCCAGGACAAGC  
ACCACNCTTCCCAGGTTTCATGAACCTGCCCATTTCCGGCAGCAACCACCCCGGGGCNCTA  
CAGCAAAAAAGGCCCCCGCTGTACTCTGCCCCGGGGCGGGNCCGCTTCTAAGAACTAG  
GTGGGANTCCCCCGGGGCTGGCAAGGNAATTTCCGAATATTCAAAGCTTTATTNCGATA  
ACCCGTCGGACCTCGAAGGGGGGGGGCCCCGGGTTACCCCAAGCTTTTTT

## Sequence 659

CTCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACA  
GGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGA  
AAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACA  
A  
ACACTTTTTCTGTGTCCTGCTGTGTCAAAGACATCAGATATATTACAGATTTTCAAACAG  
G  
TGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAG  
ATTTGGTTGAATGAACGCTAAGATGGCCAGACNCACCTCTTNGATCTCAACTCTGCAGCC  
TGGG

## Sequence 660

CCGCGGTGGCGGCCCGCGGGCAGGTACTATGACCTGAAGAGGGCAGAGGCCATCACTGTT  
GGTCCGGTCTCCACCTGGGGAACTGAGGTTGCACAGTGTCTCTGTGGTGACGAGCAGGG  
CTTCATCCAGTGCCTCTGTCCCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAG  
CAACAGGTGAGACTGGAGCCAGCTGAAAATGGGAGACCGACCCAGCCAACAAACAATGT

Table 1

CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAAGTGCTCCTGG  
GACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAATCAGG  
AAGCAACAGCCATGCATTGCGGGAAAGGAACCTCAGTGTTGTGTGGCTTAGTCTCCAGAC  
CTAACTTTTCTTTGGTACCTCGGGCCGNTCTA

Sequence 661

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGACGACTTTTTTCTCACCATGAA  
TGTCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCA  
TGGATGGACTCAAGGCAAAGGCCT

Sequence 662

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTATTTTTATTT  
TTT  
TTTTTGGNCNANANAAACNAGTTTTTTTNAATTNATTNAGGGGGAANGNGGGGNGNCTTTG  
GANAANCCNCNNNGAGGGCTNTNGGGGNGTNTCCNGNGGCNNGGGGGNAGGGGTNGGGG  
NCTNNGGGGNGGGTTTNAAGGGGCCNNGNCCCNNGGCCNCTNTAAAACNAGGGGANCCCC  
GGGCNNGNGGAATTCGATNTCAAGCTTNTNGANCCCNCCCCCCCCCGGGG

Sequence 663

TCCCCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCNCGCCTGC  
TCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGGCAGAGACAGACCCAGGAA  
GGAGAGCAAGGCCCGCGGTACCTGCCCG

Sequence 664

TNCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCNTACTGG  
CTTNANGNGCNNNATTCCCTTCCNNGNCCCCCNGGGGGNCCNCAANTAAGGGTTTNGG  
ANCCNCTNTTTTTTNATCNCGNCAGCANCTTAAATGCCTGGGAAGATGGTCGTGATCCT  
TGGAGCCTCAAATNTACTTTGGATAATGTTGCAGCTTCTCAAGCTTTTAAATCGAGA  
C  
CACCCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCAC  
CACAGGCTGGGGAGTCCCCATTTTCTCTTTGGAGAACCCAGATAGGATAGTCCACTTGN  
ATGGGGAAAGGTGACCNAATGGAGGGGGACCACATNTTACGCTTGACAATGNATCCTTGG  
TTAGGTTTTTGGGGACCGAACCACTCTTAACCTGGTGCCCAAGCAACCTTGNNGGAATCT  
ANGGNAATTG

Sequence 665

TCCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCTGGAGCTCCTGTAATAAGAATG  
TGGTTGGAAGATGCAAACTGTGGATGATCATCACCTCCATTTTCTAGGTGTCATTACAG  
TGATCATCATAGGCTTATGTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAAATGAAA  
TACTTGAATTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTGTG  
TTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATGTGTACCT

Sequence 666

GGGTGGCGGCCGCCCGGGCAGGTTTAATCTCAGGTCTCCCTCATACACTTCTCAGCCTCA  
GCACCTAACCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGATAACATTTTT  
T

GAATGTCCAATGTGCAAAGCACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAAC  
TCTTGCTCTCAAAGATGTCAGTCTTTTCTTTGCAAGGATAACACATGTAGAGTAAAT  
G

CATAAAGGGGACTAATTTTAAATGTACCT

Sequence 667

GGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGC  
GGAATAAAACAGGAGCTAGCAAGATGTCTCATCTGAGCTTCCAGTGCCCAACTTATCTG  
AGGCCTGGGGCTGAAGCCAGCGCTGACGGAT

Table 1

## Sequence 668

GGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTCTGGTCGAAAATTT.  
 TT  
 GTTGAATTTTAAAGAAAAGAAAGGCAAAGTAGCACTCAGATGGCCTTTTTTGTAAAGT  
 GAAGTCAACCTAATACTCTGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTA  
 G  
 TGTTAACAATACACTTAAGAAGTAAGGATAAACCATCAAGGTCCACAGCTAAATAACCA  
 GCAGATTCCCAGAACTTTATGTATTTGGGAAAAGTAAAATATACAACAGACATATCCCT  
 GCCCTGATTAAGAGGGTAGATAAAAAACAAACATAAAACAATTTTACTTGAGATAGTAAT  
 AAGTTATTTGAAA

## Sequence 669

GGATCAATAAAATCTGTGTGTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTTCAGCC  
 ATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGA  
 AGCAACTGACGACAGATGCTGCCCCGATTGGTGACAGATGCAGCCCAGGTTGGACTGAGTC  
 ACTGCCCTTGCTGCCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACCATTCTGTCT  
 AGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAATT  
 TCTCCATATCGTTTNTAGTTACCCTAATCTCTGCACAAATTTTGTGTGTACAGAAGC  
 A  
 GATCCAGAGCTTGAATA

## Sequence 670

TNCGGGTGGCGGCCGCCCGGGCAGGTACATTCTTTTTTTTTTTTTTAACTTTTAGGGT  
 CT  
 TGCCTATTTGCATCCTAAGGGCAAAGGCTTAGAGATATCAANGGGGCTAATNTTTATN  
 GNCAGACCATGGCGATGTAAAATTAGCTGCTTTGGTGTGGGCTGCAAAAATAACAGCTA  
 CCATTGCAAAACGAAAATCTTTCATTGGCACCCCTTACTGGATGGCCCCAGAAGTTGCAA  
 GCAGTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACA  
 GCAATTGAACTTGGAGAACTTCAGCCACCTATGTTTTGATCTCCACCCAATGAGGGCTCT  
 CTTCTTAATGGCAAAAAAGTAATTTTCAGCCTCAAACTAAAGGGCAAAACAAAATGGGC  
 ATCAACATTCATAATTTTGTCAAAATAGCACTTATCNAAAAAAAAAAAAAAAAAA

## Sequence 671

GCTCCCGCGGTGGCGGCCGAGGTACGCGGGTCTTCTCATGCTCCGTGATGCATGAGGCT  
 CTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGAGTGCGA

## Sequence 672

AGCTCCCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTT  
 TCTTTTTCGAACCTATACTGTCTTCTGTAAATCTTCTTACTACCCTATGACCCGTGAG  
 C  
 CAACCACTTCCGATGCCAGGGTCTTGACACCTCACCTGGCATAATATAAAGTGTTTT  
 TT  
 TTTTATACCCTTCCAATTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTA  
 AAAAGAGAAGAGTTTATTACCTCAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTGAAC  
 CAAGGGAAATCATTAAAGAAGTGCTGGTATTTTTCAAATTTCTGTCAGTTGTTACATT  
 T  
 GTGATAAGTAAATGTTTAGGAATAAAGGATGGAGACATGCTTAITTTATTTAACTCCCC  
 C  
 CNAAAAAAA

## Sequence 673

GGATTGAGTCCCGCGGTGGCGGCCGTGCTCTTAATCATGGCCTCAGTTCCGAAAACC  
 AACAAAATACGAACCGCGGTCTTAATTCATTATTCCTAGCTGCGGTATCCAGGCGGCTCG  
 GGCTGCTTTGAACACTCTAATTTTTTCAAAGTAAACGCTTCGGGCGCGCGGGACACTC  
 AGCTCCGCGTACC  
 T

Table 1

## Sequence 674

AGCTCCCGCGGTGGCGGCCGAGGTAAGTGAAGCCACCAAGTGTCCGGATGGAAGTCTGCAT  
CTGAGGTTGCTCAGTGTCCCGGTCATTCATTTACACATTTTAACTTGCAATTAAGAGCT  
G  
TTCTTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAATAAACTGGTTTTTTTCAAAA  
AAAAAAACAAAAACAAAAAAACACAAAAGCTGCATGTCTAAAATTACATGGAGTTAG  
TGTCTATTCTTTTTCCCTTTTGCAGCACTTACACAGCATTTTAAACACCTTTTTTTTC  
TAGTTTTTTTGTTCGGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCTAACCAGCTTA  
CTGTGGGACATAGGAAACTCAGTAGAAATACCTTTGGTGATCTTGTTGAGTTTAACTCT  
GATCTTGGATCTTAACTCA

## Sequence 675

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCTTCGGT  
TTTTCTCTTCCTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC

## Sequence 676

NCCGCGGTGGCGGCCGCGAGAGCACATGATGACCACGCCATCGTCCAGTATGAGTGGGCA  
CTGCTGCAGGGGGACCCGTCAGTGGACATGAAGGTAACGCATGTTGTCACTGCTGGCAGC  
TAGGTCTGCTGGGGCACACCGAGCTGTGAGGGAGGGAGGCCAGCATGCGGTGCTCCTGCC  
CG

## Sequence 677

TCCCGCGGTGGCGGCCGCGCCGGGACGAGGACGCGGGAAGGATTCTGTAAGTATGTAGCAGTG  
TTTCTTAGGTAAAAGTCTCTTTTTGCTACTGAAAGGGAAATGGTCTCTAAACACTGGTC  
A  
CTGTAGCAGGTAAACACTACTCTAACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTT  
GCCTTANAGCTGTTNTTNTNCTGNANAAANCNAAANGGGTTTGNNTCCCNANTANNTN  
NAATTTNTNTTTGNCCTAAAGTTTTCTNTTCCCNCCNNGCCCNANNTTCCCCGGGGNAGN  
TTTCCCTTTTCCCGGGTTTTNAAAAANNGGNGGGNGGNTTAAACNNGNCCCCCGGGN  
CCCCCCCCANNTTTTTGNAATTTCCCGGGNCGGGCCGTTTTTNAANNAANANGGGGTCC  
CCCCCCCCNCNCGGNNNAAATTNTNTTNAANACATTTTTTCCCCCCCCCNCCCCC  
TCCNNGGGGGGGGGGNNGGCCCCCCCCCCTN

## Sequence 678

GCTCCCGCGGTGGCGGCCGAGGTAAGTGTGGCATGACGTCGATGATCGAGTTCANGGCT  
NTCTCCANCTNGGNCNACATGATGCCACGGNCTNGCCCCACCAGGTCTTNTGAAAGACA  
GNTGACANGAGACATCCNCGCGTACCTGNCCG

## Sequence 679

NCCGCGGTGGCGGCCGCGCCGGGACGTAAGTGTGTTGTGATCGGAACGTGTGATCCCT  
CTTCTCATCACTGCTGCTCCAAGTGGATTTATTACTCCGGGAATGGTCTGAGGGGGAAAA  
CCAATGTGTTTAGCGTGCCTGCCACCTGCGCCTGAGCACAACTATCCTGCAATCTGACC  
TGCCCTCCTGCACAGGAAACACCTTCCCTCCCAATTGATGGTTCAAACACTGCCACC  
GCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAACAACTTATTTTTAG  
GATTTAACGACAACCGGTTGAAAAAACCGGTAGGGGTGTCNTGCTCACAGAGAATAAAG  
ATTTGTAGAAAAGNGCTGAAGTGCACAGGAAGGCATTTCTTGTCGGTGTCTGGAACCG  
TGATCCTTACTACATCACTGAACGACACCAAAGCACCCCATGCACTTTTTGGGTCCAAC  
CT

## Sequence 680

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACAAGGGGAGGTAATGATGGGAGCTCCACT  
CCTTGACCACCAAGCTGGTTCTGGACCGTATCCCATGAATCTGTTGAACGTAAGGAGG  
AAGTCAAAAAAGTTCTTATTTAGGGTTTCTTTGAGATGTGGGGCCACTTCCATTCCCA  
CC  
CGGCACAGGTAGGCACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATG  
CATGTCAACCGGGGCAGGCACTCTGAAATCCCGTTTTGGAGAGGAATTTGTTACATTC

Table 1

AGGATGGATGCCTCCACGTAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTGAAA  
AACCAATTTAGGCATGTTTCCTTGGCCGTGTCATTTGCATTCTCTGGAGAAAAGTGAT  
CT

GGTAAGACGCTGCGGCTATCCACACACATGGAAAAGATGC

Sequence 681

GCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTCGAGGAAATTTTAACACT  
TCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCCTGCTTCACCTTCTGCT  
GCTTTTGGGACTTTTTATGAAGCCTAGGTAGNCTNAGGACANGACCCTGAACCCATTTTT  
TCACTGGGAGAGGAAAACCAACAGGCTTCTCAGCTATTGGCTTGGCAACTCTTGAGTTC  
CTATGGCTTCCATCAGGGGCTCCAGGCCCTGATAAGTGGCCTCAGGCCAGGNAGGGAGGA  
TTCGGNGTAGCCGGGATTGGGGAGCAGCTAGGTNCAGGGAAGGNTGGGAAAATAGGGGAC  
CCANTCCCCAAAACCAACCGTTTGGCCGCNATGGATGGAATTTGGAGGGGAAGTGGGACC  
GNTAAGTTTCTGGCATTGCCTGGCCGNTTGGGATGCCTTCTTCGGGACTGGCTCCCAGG  
GCCGAATNTTTTTCAGGGTCTTGCAAGCCCGCT

Sequence 682

TTGACTCNCCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCTTATGGCCAACC  
GCTCGGCTTGCGCCCCGCCGGTTTCCGGAGATATGTTGTATTCGGCTGGGTGAGGGTCT  
CAGGCAGAGTGCGCAGGCTCGACGGCTTATACTTTGGGAACGACATCTTGCGCAACCAGG  
GCACAATTGCGCCTGCGCGATTCTGAGGCCCTTTGTCTCCCCGCGTACCTGCCCG

Sequence 683

GCGGTGGCGGCCGCCCGGGCCGGTACGCGGGATGGCACATGCAGCGCAAGTAGGGTCTAC  
AAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACNGCCCTCAT  
AATCATTTTCCTTATCTGCTTCCTAGTCTGTATGCCCTTTTCTAACACTCACAAACA

A

ACTAACTAATACTAACATCTCAGACGCTCAGGAAATAGAAACCCGTNTGGACTATCCTGG  
CCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTTACNNATTTTTTAAANAANANAAA  
NGGGGGAANGGACCCNTCNTTANAAAAAATNGGGCCCNANGGTTTNGCCCCC  
NGNGGGCCCTNGGGCNTTTTAAAAAANNGGGGGANCCCCCGGGGNGGGGGGGANTNTTT  
TTAAAGNTTTTTCCCCCCCCCCCCCGGGGGGGGGGGGNCCCCCCCCNTTTTT

Sequence 684

CCGCGGTGGCGGCCGAGGTACCCCATGCAATATANTGGCTCTACAATCCTCAGCATGTTA  
ATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTGAAGATTTGACNGAAGGCGAAGAAG  
CTGCAACACCTTTCGAACCTTTGGGCTCACTCCATTGATACCTCTGATTCTGATGACAAA  
CGCCAATTTGGGTTCTGCAGGTACGAGGACATTTTCCCCGCGGCTTGTTGGGGTCTCCT  
TTACCCATGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCTGGTG  
CGAGCTTTTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAACTAG

Sequence 685

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATGGAGGTTTCC

G

NTCTTGTTGCCAGGCTGGAGTGCAATAGAGCGATCCCAGNTCACTACAACCTNCGCCTN  
CCAGGTTCAAGCAATTNTNCTGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGCATAAGC  
AACCATGCCCAGCTAATTTTGTATTTAGNANGAGATGGGGGTTTTTCNATTNTNGGNAA  
GGNNGGTTTTGAACCNCCCCCNNGGGGGNCCNCCCCCTGGGCTCAAAAAAANGGGGN  
GGTTAANTANGNGGGGGGGNNGNCCNATATTCCNCCCCCTGTATAAAAAAANANCNC  
CCCCNCCCCGNGGTGTGGATATANATATTTNTACATTNTATNTTTNTCCNCCCCC

NC

GGG

Sequence 686

CCGCGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTTTTTTTTTTTTTTTTGGTTTTT

T



Table 1

## Sequence 693

TCCCGCGGTGGCGGCCCGCCGGGCNGGTACCTCAGGGACATTTAAGAGTTGGACGGTGCA  
AATATATTCCAAAAGGTGCAACATGACACAGTGATCCCCCTGCTTCTGTTTTGTAT  
A

TTTTTGCTACT

## Sequence 694

GGTCTCTGTTGGGGCTCCCCTTTCCTGAACTTTGGCCAAAGACAACAGGATATTCTTGGG  
GGTTTTGTTGTTGTTTTGTTGGCATNNTTCTGTGCCTGTTGGTGATTCCAGCACAGN  
CC

AGNGANCCGNGTACCTGCCC

G

## Sequence 695

GTGACTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTGTATAATGGAGGCTGACCAGAGC  
AGTTTAGGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCTAGTTTGAAGGTC  
GGCCTTGTAGATTAACGAAGGTTACCTAAATAGAATCTAAGTGGCATTAAAAACAGTA  
AAGTTGTAGAGAATAGTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

## Sequence 696

NCCGCGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCCTCATGCAAGAGAGGACTGAGTGG  
ATTTTCCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGGAATTTGGGCCATA  
TTAACCACTTAGGTCATGATAAATGATTACATTTTTGGACATTTTGGTGTCTTAATGTC

A

GCAAGGGTTGCACGATAAGTTTTGACATGCATGCATGGGAGACATGTAGAAATTCTAGTT  
ACTTACAAGTTTTTGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAAATAACAGGGGAG  
TCTAATTACTTCTAAATCCTCACATAAGGAGTTTTTGCCTCTGGATGGCCTGCTTGAT

G

GNCCTAGGGNGATCTTTGCCCTTTTATACTAANAAGCCCTTGCCCTGGAAAGGGNTNTT  
TGGGCNNTNAAAAAATTGNGGGCCGGGGGAAANGGGGAAACCANTTTTGGGCCCCCNT  
NNNGAATTANAACCCCTTTTTTTTNGGNGGGAAAAATTTNCCCCCCCCCCCCGGGGGGGC  
CCCCTNTTTTTTNGGGGGGNANAAANCCCCCCCCCTCGGGGGGGGAAAAAAAAA

## Sequence 697

CGCGGTGGCGGCCCGCCGGNCAGGACGCGGNGANGACAGCGNCAGGCGCTTGATTTCCCT  
GAGTCCCGGTGCCTCANCTGCCAGNGCCACGTTTCGTAAGAAGGCAACAAGNTCTTCTC  
CTCTACAGAAGGATTTTGCAAACANTTCGGCAAGNTCCAAATGATTCTGATCGCAAATAC  
CTGGAAGATTGGGCAAGAGAAGAATTGAGAAGAAACAAANGTGCCACCGAAGAGGATACA  
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCAAGGAGTTAGAAAAACACTTGCT  
TTAGCAAAATCTTAATATAGCATTATTCTGAAGGGA

## Sequence 698

ANCCTACCGCGGTGGCGGCCGAGGTACGCAGNCCNCCTGTAGGGATCNGTNTTGTTCNT  
GACNAGCCCTACGGTAATGCAGCCCGGAGCTTGTTTTCCGTAGCTGGGGACAATCTTCTG  
TCCTTGCTGTTTCATGTCGTGGAAGAGAGGGGCAGAGTCTTGCTCTGTCACCCAGGATGGA  
GTGCAGCGGCGTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC  
TGCCTCAGCTTCCAAGTAGCTGGGATTACAGGCGTGCACCACTACATCCAGAGACTGGG  
ACTACAGGCATGGATTTTCAGGTTTATAACATGGCAGAGTGAATTCTGGCAACACACTGA  
GTGATGCTTGNCAATGGCCACTATCAGGAATTTAAAACAAGATT

## Sequence 699

CGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTCTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCCAAAGTCTCAAAAACATTCTACGTTTCTAGATTTTAG  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGCA  
GAGTCCATGTTGCCCAAAGTGGTCTGGAACCAACACCCAGCTAATTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCGCTCCTGGACTGCGCTTCTACGATCCAACGCATGCCTGG  
AGTGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG

Table 1

GTCACTGG

Sequence 700

CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTCCCTGACCTCCG  
CACCGGAAGCCCCGCGTACCT

Sequence 701

ACCGCGGTGGCGGCCGAGGTACGCGGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGT  
TCAGATTTTTCTTTTATAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAATTATAAT  
NCTTCTTGGATTCTTGGGAGCCACATTGTGACCCCCACTTATCCACAGCGTCTCATGTC  
TGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCAACTTTTGCCACTACAA  
CTTCAGGGCCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAG  
CAGGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGA  
CTGCTCCCAAATCAAGATACCCTTAACAGGAGAGGGCCAGTTTTGCCCAAGGAGCCAGGC  
AGGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTTNAACACAACCAGGCCCCAGT  
CACGGGGATGCCCTATGTATTCTCCTTCAAATGCCTTAAGAGCAAGGGCCAGATGGTTT  
CAATACCTATNCAGGTTTACATGGGC  
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCAAGCAACAGTTACTGCGACGTGAGATCAT  
CAAGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGA  
ATATATGTTAGATTTGCAACCAGAGACAAGTATCTCTACTGTTATGAGCAATTAATGA  
CAGCTCANAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCAGGACAGAGC  
CCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACC  
T

Sequence 702

GCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTT  
CTCANAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCATCTGCC  
CACAGACGGGGTGGTTCTAGACGGCCGCTCTAGAAGTNGTGGGATC

Sequence 703

GGTGGCGGCCGCCCGGGCAGGTACAAGACCTTGACACGCCCAAAACACTTCTGCAGATG  
TTGNCGTTGGAAAAGTGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCTTG  
GTTGTGAGCAAGAAGCTGACACACCTGTGCTTGGCCAAAGAACCCATTTGGGGATACANG  
GGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT  
TACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAG  
CCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGGGA  
TTCTCTGTGAGGCATTAAGAAGAATCCAACTGTAACCTAAAACACCTACGGTNTGAAGA  
CCTATGAACTAATTTGGGAAATCAAGAAGCTGTTGGAGGGAAAGTGA

Sequence 704

CGCGGTGGCGGTCTGCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTG  
CTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCNGTGACCTTGCTCTGGAGACN  
ANGATATCCCTTACAGCTGAGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTC  
ATAATCACCTGCACGTTTATGCTCACCAGCTCCTNATTGTNNAGAGACAGNCNNGGACT  
CCCGGCCGAGGATGTACCT

Sequence 705

CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGACGCCATTACC  
ACTCTTGGCTCCCAGAAACCTCTGCGCCCCGCGTACCTGCCCC

Sequence 706

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTAAATTTTATTACCTTTAATTAGGCAATG  
TTTCTTAGATAACCATAAAAGTCAAAAGCAATTTTAAAAATGTAAATAGGACTTCATC  
NAAAAGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAAATCTGA  
TGAGACTTTATGTCTAGAGTAATGAATCTTGTAAACGAATAACCAACCCCCCTTTTAAAA  
ATGGGCAAAAGATTTGAATAAACATTTCACTACAGACAATAAACAAATGGCCTTAAGCAC  
AAGAGATGCTCAACATCAGTAATTATTAGGGAAATGCCAATCAAACTACAACGAGATAC  
CCTATATCCACTAGTATGGCTATAATAAAAAAGAGTAACAAACCGTTGAGGAGGATATGG  
AGAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTTCAACACTTTGGGA

Sequence 707

CCCTTAGCGTGGTCGCGGCCGAGGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTT  
GCCCCGTGCTACTTACACAGTCCAGAATCACTTGGGTGAGCATTCCAGTAGGACGGTGGCA  
TTTTAGGATTCAGAATATTAACCTATAAACCTGTCATTTGATTCTTGATTATTAATGTCT



Table 1

GGATCGCCTGTGGTAGGGGTGTAATCCAGGAAGGCATTAAATATATTTGAATTAATGTA  
TATTTTGAGAATAAAAGGCTATTTCTAGAAAATATTACACACTTGTCTTATGTTAAATAA  
AAATTTGCTATTTATTGAATATCCCTTACCCACCCTTCTTCCAATGAAGATCTTATGCA  
TACCTTCACTGGAAGGTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCAT  
TTCTCTGTTTATATTTTGNAAACGCCANAGCAAGGGCCATGCCACCTTCTCATTGGACC  
T

## Sequence 708

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTT  
TCATCATTGGAAGCAACAGCGGCAGTCCCCTGCCCAAGTTATCCCAGTCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCACTGGGATCAGTTATAAACTAGAG  
TGGTAAGTGCTTACATTCTTTAAGCACTAAAGAAAACCTTTTAATTAGCTACCTTGCTT  
CCAGTAATCAAAC TAGAGTCCTCTGCCTTGTGTAAGTTGCTATAAAGTATTGACTATTA  
GAATGTCTTGAACCTTGGTTACTGNGAGCCAAAGTCGGTGCTCAAAGTATATTTCATAGT  
CTCAATTATATAGTAATTTANGTTCTGAAAAATAGGTTCTGGCTTTCATATGTAATATT  
TTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAATGGATAAATTTAGAAGTTTATTT  
TCCTT

## Sequence 709

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAG  
AAAGTTGTTAGACTAATTTTTCAACAAAATCTTTATTGTCTTGGTAACAAAAGAAGCA  
TACTAAAAATCTCAATAAGGCACAGTGTCTNTAGAAGCTTGAGCATTCAACATAAACTT  
CTAATTAACACGAACTTGTGCTCTTATTTAGCCATTGCTGTGTGGGCTTGGAGCCAGGA  
GAAGATGCAGAGGAATTTACAATGAATTACTTCCATCAGCTGCAGAAAATTTCTAGTT  
TTGGGGAGACAATTACAAACATNGTTTTA

## Sequence 710

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACGCGGGCTAATCCCAGTTATGAGGGCTCTGCC  
CATGACCTCATCACTTCCCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTAGAAT  
TTCAGCATGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTCATC  
ATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTAGAACTAAGACTTT  
AGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATATCTCCAGTACCTCGGCCGCGACC  
ACGCTAAGGGCGAATTCCAGCA

## Sequence 711

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAT  
AGCCATATACCAAATAAATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACA  
CTAAAACTCTGCTTCAGGCTTCCATCCTCTTAATTTTANAATATCTCTGATTTCTAAT  
TTTCTGATTGACATCTTTTGGTAGATTATCGGGTTTTTACTTTATGTTATTGACTGATCC  
TTTAGAATGATTTTCTTTTGTCTGGGAAAAAAATGCATTCTAAATCANATTCATAA  
TACTTTGATTCATTCCAAGGAT

## Sequence 712

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAATTTTAAACATTAGGAGGTAATTAT  
AAGTAGATTCTGTGATTAGGACTTCATTATGTATCTTTTGCTACATAAACCTTTGTTAG  
ATTAAATGGAAGACACCTGCTAGGTGATACTTTTATAAAACATATGAGTAAGTCATATA  
TCTTTGTTAAATTTCTGTATGTTCTTTTTGTATAAAGATGGAGAGAAAGGATGGAGTGA  
TACTAAGGACCCTAATAACATCTCTGTTCAAATTAATTACTAAGTGATAGAAGTATTCAT  
ATGCCATTAAAGATTTGCCAATTCTATT

## Sequence 713

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTGACACAAGGACTCCAGGCCACACATATCT  
TCTTGAAAGCCCTTTTCTGTTTGAAGAAAAGATCGTTTGTATTTGATAGAGCAAAAGAA  
GGCCACAAAATGAATTGCTTCTTGTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGCGA  
TGCTGACCTTGAAAGACAGAAATTTTCAATTTGAACTCAACGGACCCAGGTAATTCT  
TTGGCTCAAGACCTGGGTTGCTTCATTATTTCTTATTTCCCAGCCTATAAGAGCA  
TATTTGTGCTTGTAAAGTGCTG

## Sequence 714

CCGGGCAGGTACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTTAAAT  
CAGGTTATAAATCCTCAAAATCACCAGAAGTATAAATTTAAATGAAAAACCCAGACCACA  
GAACAAAAACAGAAATACCAAAAAATAATCACAAATATTTAAAAACAGTATATAAACACA  
GTGACAGAATTAGGACTAAACATATCTGTAAACAATAAATGTAAGGGTAATCTCACCAA

Table 1

TTATGAAAAAGACCTTCAGATCATATTTTAAAAACAAATTTAAAACTCAACTGTATGTTT  
ATGCAAGAGACAGATTTAAAAATAAGAGACTCAGAAAGCTGGAAATAAAAAGAAAGTGC  
AAAGAAATAGCAAACAAATACAGGCATAAAAAAAACAAAGATCCCAATAGTACCTCGGC  
CGCGACCACGCTAAGGG

## Sequence 715

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAAT  
TGGTGTAATTTGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAAT  
GTGGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTGATGTTTTATACTAT  
TCATAGCAAGATATAAGTATTTAATCTGCAAAGACGTGGATTGAAAATTCAGCTGCCAA  
ATGTAAGAACAGATTCTAGATTATTATTAATAATATCTCTATAAATATTATATTTATC  
AATAATGGGTACCTGCCCGAGCGGCCGCTCGAAAGGGCN

## Sequence 716

CCCTTTGAGCGGCCGCCCGGGCAGGACAGTGGTGTGATCTTGGCTCATTGCAACCTCCA  
CCTCCTGGATTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC  
CTGCCACCATGCCCCGTGAATTTTTGTATTTAGTAGAGACAGGGTTTCACCGTGTGG  
CCAGGCTGGTCTTGAACCTCTGACCTCAAGTGATCTGCCTACCTCGGCCTCCTAAAGTG  
TGGGATTATGGGCGTGAGCCACCATGCCACCTCCTGGGTCTTCTTCTGGATATTACCA  
GGCATTTTTATGCTGATCTAAGTGAAAACCTGGATATTTTTTTCTCCAAAGTTATTTCT  
TAGTTCTACCTATGACATGAGGGTGATCTTTATAATTTTTTTGTTTTCACTGAAGAAA  
TAAACATTGCTTAANGGGAGAGTTTGGGGGAAGTGCATANGGGATCTGCAGTTGGGACT  
GGATTTTTCGGGT

## Sequence 717

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTT  
TGGAGACTTACAGATAGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTT  
TGGTGGCCAGCCTCCAAGATGGTCCTCAATGATCTTTGCATCTTCATATTTCCACCCTGT  
GTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACCACATGGCTGCAGTAA  
TGGTATGTCACCTTCTGAACCTTAGGTTATAAAAGACTATGACTCTCATCTTGGGTGTCCAC  
TCTCTGTCTCTGATCTTACACTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAG  
GCCCCACAGGGTGAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGCCTGNCA  
ACAACCATGTGAGTGACCCCGGNAAGATTTCCAGTCCCAGTCAAACACTTGANATAACC  
GGCAACCCTTAAGCTGACAGCTTAAGTGCNANCTGATAAAAGACACCCTTGGGNCAAAAC  
GATTNGGAACCATTCATACCCCA

## Sequence 718

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCNNTTTCGAGGTNTTNGGGGCGGGATAAA  
CATGGCGACGTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGGCCGT  
GGAAGCATCAAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTTGAACACGAC  
AGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTTGCACTCCAGTCTGGGCGACAAGAGG  
GAACTCCATCTGAAAAAAGGAGAAATCTTTTATTTTCTACTTCTCTTCAGATTTGTC  
TTATGCATTTTCCAACATATGATGCATCACAAGCTATTCTTTTCTGAGTTATAGCTACA  
GTTTTCTACTGTTGTCTNCATGCCATTTTCATTTACATGGTACCTTG

## Sequence 719

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTNNNTTTNTNNTTTNTNTNNGGAGAC  
AGGGTCTCGCTCTATCACCTAGACTGGAGTGCAGTGGTGAATCTCGGNTACTGCAACCT  
TCACACCCCAGGCTCAAGTGTCAATCCTCCCGCCTGAGTAGCTGGACCACACGTGCGCAC  
CACTAAACCCAGCTGTTAATACACCATTTTAAACCCAAAACATTAAGAAAAATATAGGA  
ACAGTAAGTAGATTACATTTTGTAAACAGACAAAGCTTACAAAGTTTTCTCAAATATGAA  
AGTCATACTAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCC  
NCAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATNTTCAAAAATAACATTT  
TTTGCCCTTAATGGATTACAAATGCTAACCNACATAAAGACCCTGGGAAAGGGTTCANAA  
TCTNCTCATTACATACTTTCAAATATCTTNCCTTTACTTTTCATGAAATGGACCCCGGAA  
TCTATGTAAGTGATGACNTGNCCGGNGTTCCAGNGTTTNTTAACTNAACTTGAANAAA  
GGCCCTAACTTAAAGTGGTTTTTGAANCCCTTTTCCAAATTNGGGTNTTGGTTTGGAC  
CCNNTTNAANCTTTTTTANCAATNTTTNTTTAAACCCCTTGGGGGGGGGGGGCCCCC  
AAAANAAAAAANGGGCCCTTGGGTAACCCCTTTTTGGG

## Sequence 720

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAGAACATGGTAAAAATATGTTACAAATAA

Table 1

TATTTTATCTTAGAAATGTATTTCAGTAAAAATCTCTTTATTCAACTATCCTCTTGATTG  
 AGGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGATAATGAGAC  
 TTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTTGGTCATGTATTTCAGTTTACCA  
 GCCTTGAAGATATTTGTAGGAAATTTAAAGTTTCTCTATTTTCATCCCCATGATAAAA  
 ATTATATAGAATAAAAGCTGAATTGAACTTTCTTCACAGCACACTGAAAAATATCTTCTA  
 TAGCATTAATCAGATCACAGAATGCATATTTAAACCAAATTTGACTAAATTATTTTTTA  
 ATTATTTAATTTTTTTCTGANACCGGAGTCTGGCTCTTGTCNCCCAAGCTGGANTGCAAT  
 GGCNNGAACTNACTTATTGGAAACCTCCGCCTCCTGGGTCAAGCCAATTCTTCCNCTTG  
 GNCCTCTAAAGTGCCTGGGATGGCAGGCCTGTGCCANCCCTCCTGGCCCCANAGNNCCGG  
 GTTTTGGATGGTTGGGTNGGTTNGGGGGGTTTTTTTTCCCTAAAAACCTTNAAATTTCC  
 CCTTTGGTTTTTTTCCAAAAAATAAACCCTTTTTTTTTTACCCCCCCTT  
 TTTT

## Sequence 721

GCAGTGTGATGGATTCTCANAATCCCCCTTGACGGCCGCCGGGCTGGTACGCGGGGTTAA  
 CTATGTTTTCTTTAACAGAAAGTTCTGTTTTGTGATCCTTTTAAAAATAAAGCTTCACG  
 GAAGGTATGAGAATAGTATTTTTCAACTTTAAATTTCTCATTACCAGAAGACCATGTGGT  
 AATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCCTAAAAAATTAGCTGACC  
 TTGTTAAAAATGTTGGCGTGAGCAGTATATTATTACCTATCTTTTTTATTGTGTGTGTG  
 TGTGTGTGTGTTTTAACTAATTGGCTGAAATATCTGCCTGTTTCCCTCTTACATTTTT  
 CTTGGTTCTTTCTTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAAGTGAATTTT  
 TTTAATGGAAAACCAAGTTCCCAAGTTTTACTCTCAGTGGGTTTNGGGACATCAGATGTAA  
 TTGAGAGGCCAACCAAGGTAAGTCTTCATGTGAGTNGTTTGGTTGAAGGAAACGAGCCTA  
 TGAGGGTCAGTTTTTCCCAAAANGGAA

## Sequence 722

NGCCCTTAGCGTNNTTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCC  
 CAGTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAAGGTAACTTTTCTTTTCA  
 TTACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGG  
 TGGGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAA  
 TCTCTTTTAGCTCAATTTCCCATCTGTAAATAGGAATAATAAAAAACTGACTTCAGA  
 GAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATTGTTTCTGTAATGGG  
 CAAGATAGCAAAATATTTTAGATTTTGTGGACCATGCAGTCTTATCATAACTGCTTAACT  
 GCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAAAAGTGTGTCTCTGTTT  
 CAATAAACTTTATTTTCAAAAACCAAGCTGGCTTGNCACATCTGGCCTATGGGCCATAA  
 GTTGGCCCATCTCTAATGTAAAGAAAGGACTTTANCCCAAAGCCACAACCTTGATAGTAA  
 TGCCTTAAAAAATGGTAACATCTTTACTGGTATTAATAATTACTACTGCATCTATTACC  
 AGNAGCCAATTGGAGTAATGAATCCATGAATGGTATAATGGTAAATACTAACCCTTT

## Sequence 723

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTTACTTTGTTGCTCT  
 TTTTCTAAGTTTTAAAGATGGATGCCAATCTCAGGCTTCTTTTCGTGTGTGTATGTGCGT  
 ATGTCCATAAATCTCTTCTAATTACAGTGAAGCCACATCCACAAGTTTTGATAGTCA  
 CAGAACTGTATCGTCACACTATTTTTTAATTTAGTAAGTTCTTCACTGATCCCTGTGTA  
 ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTGNTTTTATTAT  
 TAATTTCTAGCTGTANTTGAGCTCTTGTGAGAAAATATGGTTTATTTTAAGTC

## Sequence 724

CCCTTTTNGCGGCCGTTNNGGCAGGTACTCCTCAGCTTGTGCTGCCCTTCTCGAATGAC  
 TCGCGTTTCTGCTTTTCATCACTACACCTCCACCGCTCTCCATCACCTGCTCTGCTCTT  
 ATAAGGATCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAAACAAGTTGAAGAAT  
 CGTCTGAAAGAAAATACAGTGTGTCTAACTGGAAAAGTCTGTAATAGTTTGTTCATGA  
 GCATTTGCACAGTGGAGTTACTGTTTCATCATGGGGGTAC

## Sequence 725

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATTCCTAAATATTAACACTGGTCAACT  
 AAAATGCACAAATTCATGAATTGGATTTGCACTCAAACAAAAAATACCATAGGCAGT  
 ATCATTCTACCTTTGTAAGAGGCAGGAATTCATTAGACTCTATGCTTGACTTTTCAT  
 ATGTATTTAACACTGTAGTAGGCTATCGGGTCTAGTTTAAGCTTCATTCTAACTACT  
 CAACAGCTCAGAACTGACAAAGATCACAAGAAATCAACTATTAACCTCTTGCTGAAGAC  
 ACAAATGAAATATTCCTATTTTACAAAGCAAATTAGATTCCAAGATTTTCCAAAGCCAT

Table 1

ACTCCTGCAGTTCACCTGGGTTTCAAACCTAAAAATCAT

Sequence 726

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCACTTAAATAAATAATTGGTAAGATGATT  
TTATCTGACAATTAATAAAGGTATATGTGAAAAACCTTAAAAAATCTATTTTCATTAC  
ATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATTCTTTTCACATTTGGACA  
ACAGAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCTAAATTGCAAATC  
AAAAAC

Sequence 727

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTCTATTGTTATC  
TCTATTTTTTGGATGAAAAACAGCAGCACAAAGAAGTTCAGTAACTGGCCTAAGGCCAC  
ACAGCTTGTCTTCTGAAGACTGGACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGC  
TATTGGGCCGCTTGTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGA  
TTCCAGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGAGTGCAG  
TTTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAACTGCTTCCACACGTATA  
ACCCACTGTGAAGTTTAAATGATTTTCATGTTTGGGCAAATTCCTACTGAATGTTAAGCT  
AGATAGGAAACAAGTTCTGACTAACACAAAATGAAGGGCTGAATGAAGAAGTCNTACTTT  
TATAAAGGAATTTTNCCTTCTCCACCAAATC

Sequence 728

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTAGAG  
ACGGGACCTCACTGTGTGCCCAGACTGGTCACAACTTTTGGGCTCAAGCAACTCTCT  
GCCTTGGCCTCCCAACTGCTGGGATTACAGGGATAAGCCACTGTATAGCATGAAAAG  
TATTTAAAAGAATCTTCCAAAGGAGGACAGAGAAATGAAAATAAAGTAAGTTCAAAC  
GAATCCTTGACACAACCTGGTTTTATTCCCAATGCCTCTTAAAAAGAATCGTTCCATGGGT  
GGCAGGAGGGGTGTTTTCATGGTGTGATGCACCGTGACTTGTTATTNAAGATGTAAGTCC  
AGTGGTCCATCTATCACGTTTTATACCTTTTCAAAAAAAAAAAAAA

Sequence 729

TCTNGATGCATGCTCGAGCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTT  
CGANCGGCCCGCCCGGGCAGGTACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTG  
CCATAAGGGAAGGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCAG  
CAGCACCTTGGATTTCTGGCTTTATGCCTCTGTTTCCCCTGGCTGAGTAAGTGCAGG  
CATTAGGTTCCCTACACACGATATATTACAGGGAAATGCGAGCGATGGTCTGGAAGGGC  
AACACTGGCCTTCTTCTCCTGAGCACTAAATCCTAAACATGCAACTTAAAAAAT  
TCTAAATGTGAACACCACCTTTTCACT

Sequence 730

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTCACTTAAATAAAT  
AATTGGTAAGATGATTTTATCTGACAATTAATAAAGGTATATGTGAAAAACCTTAAAAA  
AATCTATTTTCATTACATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATTC  
TTTTACATTTGGACAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTT  
ATCTAAATTGCAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTTCTCCTG  
GCTG

Sequence 731

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTCTGAAGAATACATCTTCGTTCAATGTGG  
TCGTATTCTTAATTTTTTCTATAATATTGCTTGTAACTTTAGAGTTATGGTTTCATTTT  
TTGACTATTAATTTGAAATTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCATAAT  
TTTTAATTAAGAAGACACTCTCAAGTGTGAACTATAATTGTAGAGTAAATTTCTAAGTG  
GAGGATATCGTAAATTTTCTTTTGTCTTGGTATTGACATGTAAATGTTAACATATGTGAA  
TAATTCAGTCCCCGATTGTACAGGTTCTATGTCTTTACCTCCTTTCAAATACCTTTCTT  
TAACAAATACTTTGACAAATTTATTAACCATTTATAAGACAAGACTTACCAAGGTGGTGT  
TCGTTTATGAATCTTTAAATGTTTTCCAATACTTAAGATACATCAAAATTATAGGACTTC  
TCAATCCATCCTATTGTTACCAGAATATNAAA

Sequence 732

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTCTTTCTTTTTTTTTTTTTTTTGGAGATG  
GAGTCTCGCTGTGTTGCCAGGCCGGAGTGAGTGGCACAATCTCGGTCACTGCAAACTC  
GGCCTCCTGGGTTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC  
CGCCACCAAGCCCAGCTAATTTTTTCTTTTTTTTGTATTTTATAGTANATACGGGGTTTC  
ACCATGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCCTGCCTCGGCCNTC

Table 1

CAAAGTGCTGGGATTACAGGCGTGAGCCACCACACCCAGCCTATTCCTTTACTTTCTTAA  
ACTTTCTTTCACCTTACTCTATGGACTCACCTGAATTCCTTCTGCTCAAGATCCAAGA  
ACCCCTCTTTTGAGGTCTTGGATCGGGACCCCTTTNCTGTNACACNAACTGTATCCCCCTT  
GGCAGACATATGAATTTGCACCCCGCTTGGGTCTCAATNTCCAGGGGATGAAACAAGG  
GAGGNAAACCGAGGGGAAAA

Sequence 733

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATATGTGAGAACGTATACTACTTCTCGGC  
CACAACACTATTTTTAGATATTCATAAAATAACCTCTGATTGTGTTTTACATTGCCCA  
TTCAGTTCTGTCCCAATCTTATAATTCTGATTAAATGTTCTGGCCTCAAACCTAATTTTA  
AAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGTAAAGACTCTGTAACTTGTAT  
AAAATTAACCTGAAAAATCACTCACTCCAATAAACTATGATTTATGTAGCTCATAAGA  
GGGTGAATTTTGAATATTTACTCTATGAAAAAGCCTAAGCAATTCAATAAAACTTGAT  
AACTGCACGTTTAAGTTTGCAGCATCTTGTACCT

Sequence 734

NGCCCTTTTCGNNTTNNCGCCCGGTGAGGTACTTTCTCTGAATTTTCATTAGCTACATTA  
AAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTTTGCTACATTA  
TCCATTTGAATACACAGTGAACATAAACACAGAGTGGCTAAAAAGTCCCTTCATGCATA  
TTTACTTAGCAGAGAGCTCTTGAGAAAGACCCCAACCAATAAACCCCAACCAAGCAATC  
CAGCTACTTCTCTAGCTGAGAGGGTGAATGACTCCAAAATATTGTTTCAAGCTCAAAAA  
GCCTAAAACAACTCCACATAAAAAAACAAAATCTATCTAATTGGACATTTACCTTTTTG  
GAAATAAAAGGCCAGTGGGAAAAA

Sequence 735

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNGNCACAGAC  
ACAGGCTGGGAATTTCCCAAATCTTACAAGTTCTCGTCCCCTTTCCCTTAACAACTCTTT  
CGGAGTATCTCCGTCTTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCACCT  
TTAACATTTTCATTACAGGATCTCAGCTCAGCCAAGTCCTCAGCCATTTTGTAAAGGGA  
TCACTTTCTTCCGGTTCCCGTGACCTGTCCCTCGCCTCCTCTAAGCCTCAGCAGAAAGG  
CCTTCAACATCCACTTTTCCACAACATTCTGTCTATGATACCTGCATTCTCTGAGATGCT  
AGAAGCTTTCTCTCCAAGCTCTTCCCTTTCTNTCTGAGCCTTCACCCGAGTC

Sequence 736

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTGTCTGCTTCAATAAAATTTGTCTTTGATT  
TCACTGGTGGAAAGGGTGCTTGATCCAGCTTTTGCTTCTCCATGAGGAGACTCTGTTTT  
CAGTTTCCGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTANAACTGGA  
CAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTTGGAACCTCTACAAAA  
GTTGGAAAGAATGCAATTTAATAAAAAATTAGATGCTAAAATTGTTTCATCTAAATTTT  
TAATTTACACAAATAACATAAACTATATGAATAGGTACCTCGGCCCGCGACCACGCTAA  
GGG

Sequence 737

NATTTTTTTTTTTTTTTTTTTTNGTTTTGAAAACCCCTTTATTTCGGTTTCTCAGTAACAGT  
GATGCATTATAGAAATCTTGTCTGCTAACTTCATAGCAAACCGATCCCAGTCCCTACC  
TNATTGTGTGGTAGCCAGCAGCAGAGAAGATAGGAATTTTCTGCCCCCTAGCAATACTG  
TTCATCCCATCAGATGGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCNACA  
TTGAGGGTTGATTGGCTGACCTAATGTNTTTCCAAAAAGGAAAATTTCAACAAGTTGCC  
CGCATTATTCATGAATGANAATTAGATNTCATATCAAATTAAGAAAGAAAAGCACC  
AGANGACCAGAATAACATAAAGCATCTCTTTACTACAAAAA

Sequence 738

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCTGCTCTGAATTAATTTAGAACAAAAAT  
CACCTGCCGTGCCACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTC  
CAGTTACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGAACAAAAGT  
GGCACTATTCAATTGTGTAGTTTTTTGTAACCTATATTTTACCCTAAGCATTTTCTCGTT  
GTCTTAAATTAATNGAAAATTATTCATGGCTAAATAATGCCTAGGCTGCCATGAGTC  
TTTTCTCCTTCTATAAACCGTGTGACGATCTTTTATATATCTTTACGCACATCTGCA  
ATGATTTCTTTGGAATAAAATTTCTAAAGTTGCTGGATCGAAAGAATCAGGGATTTTAA  
AGTGTCTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTAAAGTTCTGAAT  
AAACAAATTTCTTTTATGGNGCATTTAAATCTACCTCTTGTAGCCATATGCNNNGGA  
AAAATGGAATTAATTTGGNCAACCATGCTTTCAGATACTTGAAGAATTGGTCCTAATTNC

Table 1

TTCTTTATGACCTATTCTGNGTTCCTGGGACTNTACATTAATCTTTNCCCATGGATATTT  
ACCATGGGAAAGGG

Sequence 739

CCCTTAGCGGCCGCCCGGGCAGGTACACAGTTTCCTTCTTCGAAACAATCCAGAAGTAGG  
CTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTCAAGAACAGGACACCATTAC  
CACACCCAAGAAAACCAGCATTTAATGAATTTATTCAGGAGTNTCATCCAACATACTCAA  
ATTTCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATTGATGGNTCACAGGTT  
GTATTTGGCTGTTACATCTTTTTAGTTGTTATCCTTCAGAGTAAACTGGCCTGCCCTC  
TTTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCC  
ATTCATCTGATTGTTTCCATGTGACCAGATTCGGGGTCACAAAATTTNTGGCAAGAACCC  
TTCACAGATGACCATGTNTTGGTTATTAGGTAACAATAGATTCTCAAAGTAGAGAACTGG  
GAAATTGACCTTTGTCCATTACAAAATAGAAATTTTTTTTGAAAATCTAGAATTCCTCAN  
GAATNAATTGATTTCTTTTCTNTTTTCTTTTT

Sequence 740

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTGTCTGCATTTTGAGATTTTCCTATTAT  
CTTTCTGGTGTTGATTTCTGTTTAATTATACTGTGATCTACAAGCAGCACTGTATTATTT  
CCATTCTTTTAAATTTGTTAAGGTGTGTTTTATGCTCAGAATGTGGAGTGGACTATTTTG  
GTGAGTGTTCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTAAATGAAGTAGTC  
TATGTATGTCAATTATTGTTGATGATTGATGGTGTGAAATCAGTTATGTCCTCACTGA  
TTTTCTGCCTGCTGGATATGTCCATTTCCAATAAAGGTGTGTTAATCTCTATCTATAATA  
GTGGATTTATCTATTTCTCCCTGCAGTTCTATCAGGTTTTGCCTCATGTAAGTTTTGGAT  
GTTCTGTTAAATGCATACACCATTAAGGACTGTTAGGTATTCTTGGGGAATTGACCCCTT  
TGGTTTCTATGTAATGCTCTTCTTTATCATTGGATAACTTTCCCTTGCTATAAANGCCTG  
GTCTGNCTGGGAAAAAANACACAGGTNGNTACNTCTTCCCTT

Sequence 741

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAGGTTAGAGATGACTTCAATATATGTCC  
CAGACCTCCCAAGGTGAGCATCACACAGCACTTATCATAATCCGAAGCAGCTCCACAGAG  
GCTAAGATGAAAACAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCAAAAA  
AATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACTGAATAAGATTTTAA  
ATTAGTCAATAGTATTGGATGCCTCTATATCTGCATATCAATAGGCTCATAAACAAGGT  
GCTCAAAGAACTGCCCATCAACCACTTGGTTTTCATCTTTGGACACCACACTGGTTATCTT  
NCTTTGGCCTCTGCCATAACGGGTCCAGGCTACGTGCACCAAAGGGAAAAGAATTGGGGT  
NCTTCTTCCCTNCCCTGGTTTGGTTAGGA

Sequence 742

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCCCTTGCCTCAACTTCTCATCTGGGT  
GATGAGACTGTTACTTTCTTCTTGATAAAGAGGGCAACTTTCATGTAGAAATTTTACC  
TCCTACTTTTAAAGAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGTGCTTTTCT  
TGCATCTGCTATTTTTCAAGTGTCTTTAACTCAAAAAAATCAATATGCCAAAGTGGCATG  
TTTGGGGGTATCTGGTTCTGAATTCCTTCAGGAAAGATAGAAAGCAAAGCAAATAATA  
GGTTTAAACTAAAAATATCCAGGTGCGGTGGCTCACGCCTATAATCCCAG

Sequence 743

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCCTCCTTGGCAGCATCAATCAGGCAGGGCT  
CAGCCCACACCCGGCTCCTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTTTAGAGAC  
CATCGCAGTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAATGT  
GACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCACACAGATCCAAGAG  
ACCGCTCACCACACCTGAGAAACAAGAACCCAAGACAGCCTCATGGAGGTGGAACCGTGC  
TACGCAGTTATGGCTTCACTACTGAATGCGATCTTGCAAAG

Sequence 744

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGT  
TAGAAATGTAGTTAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATT  
AGATATTCATTTATCTTCTCGTATTAGACTGCTTGTAAAGAGACTCAGTGTTTAGACATT  
CATTTCTCTTCTTGTATAAGACTCCTTGTATAAGACTCGGTGTTTATCTTTTAA  
ATTAAACCACAACAAATATATGAGTTTTTAACCATTGCAATGTGCAATAAATAAATATAT  
CTGAAGTAGCATTAGCCTTCTAGTTTTAAATAATAA

Sequence 745

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCA





Table 1

TGACATATTTTTCCCATCTTCTTATTTCAACCATTGACTGGTGTCCAGCCCCAAATTG  
TTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCACCTTTAAATNGTTGAGTTC  
CATCCCTTTAAATCATTTAAAAACATGATTTTTAAATTTATCTCCATTACCTTATTTG  
NGTTTACTTTTTTACTTTTTATTTATTTCT

Sequence 754

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTAT  
TTATTTCCAGGGCTGTCAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAA  
TTTATTNTCTCTANAGAANAACGTTTTCTTGCCACTCCCTGGCTGCTGGTCATTGCTGGC  
AGTCCTTGTCCTTCCCTGACTAGTANCTACATCATTCTCATTCTGCCTCTGTCTTCATA  
TGGCTGTCAATTCCTGNGTGCTTGTCTCTGGGTCTTCAAGTGGCCTTTTATAAGGACA  
CTGGTCATTGGATGTAGGGCCTACCCCAATC

Sequence 755

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTTGGAAGGGTTTTTAAATGTTTTGAACT  
GTGCACAGGCCAAACCCAACTTTTCAAGACATGGGTTTTCAACTTCTGGATGGTATGATGG  
GGTGATAGTAGGGTATAAAGTATCCTGAGAAAGTTGAAAGCAGTGTGTGAATGGGGTGT  
CTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACTTAGCACCTCACAGATGCT  
TGGGCCTGGAAATGAAGCCATGAAATGAAGCCCTCAGCCTTCTTGAGATCAGAGCCAT  
GGTCTCACCCACAGCACATGGG

Sequence 756

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAAAATTTAAATAGGATATTTATTTCTAAGC  
CAAATTTAGAAAAACAATTTACAACTTTTTTAAAGTATAAACATAGTGTATGCTTACT  
ATAAAGGAAAAAGTATAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTGCTGAT  
CCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACAAATACAGTAGCTGAAACA  
ACACATTTGTTTTCTCACAGTTTCTGTGGGTGAGGAGTTCAAGCATAGCTTGCTCCTCTG  
CAAGCTTACAATCCAAGGGTTG

Sequence 757

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAG  
GAAGAGATGGTATCACAAACACAAAGCACAGTTACTGTCTTTAAAAATTTGCGTTCTTC  
TATTCTCCAATGGAAGTGGGAACAAAGAGAAAAACCCCTGTGTGCTCCTAGCACAAATATGGG  
CATTTGTGTGGATTAAATAAATGGGCATTTGGATTGTTGGGAAAATGTGATCAATCAGCA  
GGCTATAGAAACACAGTTTGATACGATGGTGAAAACCTGTCTACAATGATGTTTTTTCAG  
AAATGTTGGTGTGATTAGAACAAGTCAGCAATGATGATGACAAAATATTTACATAATGTT  
ATAGATGTGGCTTGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAATTGA  
GAACCGTTTAGTTCAAGTTTGCTTTAAACAGTGGTTTTCTGAACCCTTTTATGTTCCG  
NGACCTATGATTAGNAACCATCTTACCATTTANAATCACTGCTTTAAAAAGTNGTNTCC  
GTACCTGCCCGGGC

Sequence 758

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTTTAAACAAATGTTGGAAATGAGGAAAT  
GAGCAATATCAACATTTTATCCTGAGGGACAGGGAGTAGAAAAACAAGCCAGAGGCTGCTA  
GTTACATAGTTTCACTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAGGTACGCGG  
GGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGAAAAATACAAGGGCTG  
TTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGCCTCTGGTCTACAAAGATTTATAAC  
TCCTTGGAAGCTTC

Sequence 759

CCCTTTCGAGCGGCCGCCGGGCAGGTACTCCGATTGCCTCTCCCATGCTTCTCTGCTT  
CCAAAGAAAAAACTGACCTTGATAGATCCTGTCAGCTGATTGCAGTGCTCTTAACCTCT  
CCATTGTGAGTTGTTTCACTCTGAGGAGTTAGGTATAAACCAGAGTGGTATTCTCTTTTC  
TGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTACCCCAAGAACATCCGTA  
TATATGTTTTTCTGTTCTAGATTTAAAAATATTCAGAAGCCTGGCCTCAAGATAGA  
TAATATTTTACTTTT

Sequence 760

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAT  
ATCCTTNATNAGGNAAAAATTTTNNTTTNAATTAACNGGAAAGTTTTNATAAAAAAAGGA  
TGTTAAATNGATTTNAATGCTNTTTTTGNATNGTNNATANATTTTTTAAATTTTTTAA  
NCGNGNAATTGGGTNNTTTAAATNGGNGTTTTTTTTTAA

Sequence 761



Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATATAAAAAGGCTACTATTCCAAGAACAAAA  
TCCTGGAAACAAATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTTCATAG  
GATGACAAACTATTCAACCATTATAAAGAAAACCGAATCAAAAGCACTGGCTTATTAGAC  
AAGAGTTTCCCAAACATCATGCTAAAACAGTAACAGCGAGCTTCCAAATTAATGTTGCC  
TTTTTTTTTTTTTCCAAACTGAAAGGAGGGTGGGGAAAAACAAACGCATCATATGTAA  
GCACTGAGTCCAGCCT

## Sequence 762

CCCTTCGGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAATTTTAAAGGAAAA  
AAATTATCATGGTTCTAATCTTACATGTTAACATTTCTTGTTATGTAGGGATCAGACTT  
GTTATAACATAATTCCACTTTATAATTCAATGAAGAAGAAAGTTTTGTCTGATTCTGAGG  
TATGTAATATTTTATTATTATTACCATATTGATATTCTCTATATAAAAAATTTACATAT  
TGTAAGTTTTCAGGTAAAAGCTGTTGTGAACATTATTTTTGTCTAGTGTAGTTAATTTAA  
AAAAAAAAAACACTG

## Sequence 763

CCCTTAGCGTGGTCGCGGCCGAGGTACGCCTAAGGGANGNNNGAACTCATNAAAGAGAC  
AAAANGTGCNTTTTTGNTTNNAAAGGCATGCTGTGGTGGTGGCGCAATAAAATAGTTGG  
GGCCCGGANTGCCANTGACTTGCTTTNTNGTNGGNAACNAAATGGCCCATCANGTTGGA  
CNCACCTGNCCANTTCAAAAGACCTTGNCCCCATTCTNTGGGAATGNAAGGGAGNGTTAA  
AAATAAAAAAGTGTGACCACTCCCTTGATGGGTTTAGCCAAACCTTGGGNTCCANGCC  
CCTGGAAAATTGGTTTTAAAGGGGGGGNAGNTNGGGATCCAAACCTGGGGGGCCAAA  
ATAAGATACAATCCGTANCTTGTNGGGAAANTTCAAATTTTAATTGTTCCCCCAAGNA  
TTNGAATTANNAAAAAAACCCCAAATTTGGGGGAAGGNAAAAAANGT

## Sequence 764

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCGCCGGGCAGGTAC  
CGCGGGATTCAATTTGAGTGGGAATCTCAAAGCAGTTGAGTAGGCAAAAAAANGAACCTN  
TTCATTAAGGGATTAAAAATGTATAAGGCCAGCACCGTGTAACCTTCGACTTTCAAAGA  
ATTTTCCTGGAAANCCCATAAATTGGTAGGTTATGGGTTTTCAATTTGGTCCGTTNCGCCA  
AGGGGGGGTAAAGTTNGAATCCCTTGGGGCNAAGTTCCAACCCCAANTAAGGCCTTCCT  
NAACNTTTTNGTTTTNNAACCTTTTTTTTTTAANGNCCTTTTTTTGAAATCCCAAAAA  
AAAAATTCNTTTAACCTTTTTTTAAATAAAGGGGGAAGGCCAAGTTTTTTTTCAAAA  
ACTTCCCTTAAAAAAATGGNTTNGGAAATTAANTAAAATTTAAGGTTCCANGGNTTT  
AAAAAATTTTCCACCCCAAGGCCCTTACCCNCCAANGGGGNAAAATTAACCAAGGGGGA  
ACCTTTTTTTNGAA

## Sequence 765

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGNTTGTGAATCCACAGATGCAGAAGCAATGGAACAGTGCCCACTGTATGTCACAATT  
TCAGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGAAAAAT  
ATACTGAACCAATTCTGATTATTGCANGAGAAATGATTGGCAGGATATTGGGAAATAA  
GAATGAAGGGCGGANAGAATTTACATGGATTCAATATACTCTCCGTCAGNGAATTTTTG  
TT

## Sequence 766

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGTTTGTGAATCCACAGATGCAGAAGCAATGGAACAGTGCCCACTGTATGTCACAATT  
TCAGAAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGAAAAAT  
ACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGGCAGGATATTGGGAAATAGAA  
TGAAGGGCGGAAANAATTTACATGGATTCACTATACTCTCCGTCAGGAATTTTGTCCC  
TTGATCTTTTTGTGGTTAATGCCCTAATTTATTGGGGCCCCCTCTCATANGTTTGGGGG

## Sequence 767

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAAT  
GTTCCCGAAAACAAACAAACAAAAAACCCCAACATTTTGCTGTTTCTTCCCTCTGTA  
TTTGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTTATTAATA  
GATTAGTGGAATTTTACCTGGCCTATTAGCACCTTATAAAGAAATAGATTAAGAGTAG  
GAAATATATAGATGAAGATGTACTGTATAGAAGTTGTGTAATCAGTATGAAAGTTCAA  
TGTTGCTGTTCTTGCTCAGTGGATTTTAAAGAAATTGAGTAGTTCCTATGTGGATTTTT  
TTTTTCTTTTCTAACTG

## Sequence 768

Table 1

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATNNANAAGCGTGCATG  
GGGATGAAAAAAAAATTTTNNNTNTATAATCNNGNTACAATATATACAATAAACACCTA  
AAACGCAGAGGCTTGCCTTGTTTNTCCACAAATANGTTAAATACCCAAATTAGTAATTAA  
ATGGATTGGTGGTTATGGTAGGAACACCAAGACNAAAAAGCCAGGCCGGGACCGTNATTT  
TAATTNNGGGCCAGTACCACCACNATATAAAGGCCACCAACCAAAAAAGTCCANANANG  
CCAANAAANAAGNCAACCGCCCCCAAGTTNAAATNGTTTTGTTGGGGAATTGNCCCAGTTA  
NTTCCAAAANGGAATTTTTGGTNCCCCANTTANTTAAGGAACCAATTTAAATAATTCCCCC  
AGGTTTANGGAACNACCTTNGTTNAAATTAAGGTTTTTTTTTTGGGGTTNACCCCTTTC  
GGGGGCNCCGCCNGNAACCCCANNCCTCCNTTAAAGGGGNGGCCCGAAAAAT

Sequence 769

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTACTAAGGTTTTGTTTTGGAGA  
CTTGTTTGAAATAAAGTGATCCTCATTACAGGATTTAGAAACAAAAGTTATACTCCACATG  
CTAGGGATTAGGAAGGCTAATGTGAAGTATCAAAAAGTATGAATTATGGAATGCCTTTAG  
AATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTAGAGAAAAGTTGTA  
AGAATGGCATAAGGAACCTCTATATATCC. TTATCTAGATTCACTAAATGTTCATTTTGT  
GCCATTTGTGTTATTCTTTGTCTCATCCTAGCCCAGTCAGCCTAACACCACCCAGGGGAT  
AAACCAAGTAGTCTGATA

Sequence 770

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATTGTGCA  
CTTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCTGCTGGGTGATCCAGACCA  
CACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCCTACTGTCTTTTCATTTATGTCAAGG  
CAGGGGAAGACCTCAAAGGGCTCTTGATCCAGTCTCACTTCCCAAGAGAGGCACGAGG  
CCCTCCAGGATGTGGGGACAGGAACTTTGGGGCAAGCCCCGGGGCTGTCCAGAAGATCACC  
AGGAGGGCTAAATAGTAGAAAGGAAAAGTCTTATTGGTGATATGTTTGCAAACTGGGAAA  
AAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGGGCAGCTTG  
GATTTTGTGCCTTACANGGTCNGTATTATATAATAGAGTCATGCATATTCANTAGGTTTG  
GGGAAAAGCTATATATATTTATGAAGGGGAGCCAACCTACATGGGCAATGGATAAACATA  
CATGTAACACATCCATGTTCACTTTAGGGGCA

Sequence 771

GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAAGTATTCCA  
AGGGNNGNAGAATNGAAAANGANGNCTNNCANCTTGNTNNCNTTTGGGAAATTGGGATAT  
CCTTTGGGGAAATGTAGTAATCAGTATATTCTGGGNAAAACATTAGTTAGAAGAATTGAA  
NTAAATAAAATTTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAAACTAATGCT  
ATCAANGATAAAGTANGAAATACCACATTTTCAGNAAACAAGCTTGGAAAGTAGNACAAGGT  
CCTTCATTAGNGCCNTAGCCTTGGNAAACCTTAATAANCCATNTAAATAAAATTGAAA  
ANTTTTTAAATTTATNACTCCTGG

Sequence 772

TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATGAGGCCACATT  
GTGTATGCTAAAAAAAAGTGNTTTTNTTNTTCTTGGCCTACAAGAACATGTTTCTG  
TCCGCTAAGGAGAAAANTNAAGAAAAACAATGGCCCCCTTNCCTTCCCNATNAANCCCCAA  
ANCCTTAAACNTCACAGGGGANGTTGNAATTTTAAGGAANTCCACCCCTTTNTNGGGGN  
NNCANTTTTTTTCCCCCCCCAAANAACCCAACNCCCCATTTACCTCCTTNGTTAAGAAA  
TTTTCCNTTGAATTNAATNGCCNACCTTCTTTTAAANAAGGNANAAGCCCTNNACCNA  
AGGCTTTCTTTTCCCCCCCCAATTTNCCCCCTTNAATTCNTTGGAAAAAANGGCCNAAC  
GGGGGAAACCCCCCACCCTTTGGGCCNTTTTTGGNGGGTCCCAAGGGGGAAAAAAACC  
AAGGGGCCNATTANCCNAAAACCAATTTCCANGGANATTGTTTGNAAATTTAATTA  
AAAAAATTNGGGGCCCCNACCATAATTTTCTTTAAAAAAAANGGTAAAA

Sequence 773

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCATCCCCAAGGCCTTTTACAGTCTGAAAT  
ATCAAAATTGAAAGCAAAAATAGGATGACCAAAGGACTACTATTTNACTCTCTTTTCAGN  
AACNTCNTACAATATGTATGAAAACCTAAAATATCCACTNTATGGGATCATCANNGGGG  
GAANNTAAANTGTTGCCCNTGTTTTNGNAAANGGGGCATTANGATGATTTGGGATGTN  
CNCANGGNCCTGGGGCANTTTTATNTCAAGGATGNAAGGGGNTNNCATTAACTGAACCA  
AGTGGANTGACANGNGTCTTCNCNTTATAAATACCAANGGGGCCGNGTTNTGGCNAACCC  
CANGCCACCCCAATTGGAACCTTATGGGGGGCCCTTNGGCCNTTTTTTANAAAAAACC  
AAAAATTTTTTTCTTAAAGGGGGAACCTTTACCCGGNCCCTTCTTNTTTTGGGGGG

Table 1

## Sequence 774

CCCTTTTCGAGCGGCCGNC CGGCGAGGTACATATACATTATGTAATTAAAAAGCGTGCATG  
TGTATGTATTAATAAATAATGGTATATAAAACAAAATTACAATTATATACCAAATAAAAAAC  
CACNCTAAACGCCANNAGGGCATGCTTGTTTATTCCCACCATATTAGNTAATAACCCAAA  
TAGATAATTAAANTGGAATTGGGTG

## Sequence 775

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGAGGGGTCATC  
CTCCAATCATTAAC TACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTAGCAA  
CAGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAAGGTTCT  
TGTATCGGTTTCGAACCCCNACAGCGCGCCAAC

## Sequence 776

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGNGCTGCC  
GTGGAGAGGATGGATGGGAGGGGGAAGAACGAGAGCTTTGTTTAGAGGCTGCTGTANTAA  
TCCAGGTAAAGGCTTTTAATCATGTCCTGAACAATGATCAGCAATGGCAATGGANATGAC  
AGAACANAATTTAANAAGGAATAAAAAAGGCTTCTGACTACTTGGATGTGGGTGANG

## Sequence 777

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTA  
TTGATAATTTTACATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTTGGATCTTGNATGC  
ACTTCGGGAAAGCCAAGTTTCCGTAAGGGTAAAAATCGNAAANTGAAAGNAAACCTTT  
AAGACCAGNCAGCTTTGAAGGTCAGCCTTGAGTAANACAGNAATTTAATACCAATTTTAA  
GAAGGAATTTGGAANAAANGAAAATGGCCTTGAAANAGGTTAGGCCAAAGGGGCTTAGG  
GTTAAGTTCNCTTTAACCCTCAAGGAAAGGAAGGCCTTNCCCATGGGGGGGGGAAGNAAAG  
NANGNCCTTAAAAAGGCCCTTTTAAACCCTTAAACCCCTTTTTTCAAGGGGGAAAAAAA  
AATTNTTTGGAAGGTTNGNAAAGGGTCCCANGGTTTCCANAAGGTTNGGAAAAAAGTAA  
AGGAACCTTTTTTGGGGGATAAAAAAAGGGAAACCTTTCCCAAGTANTTTTTTTTGGG  
AAAAAAGG

## Sequence 778

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGA  
AGCTGGGAAGTATTCCTCCTCTTCTATTTTTTTGGGAGGACTATGTGAAGAACTGGTNT  
TAATAAAAACCTCCTTATTAAGGAAATTTTTTAAACATACCAAAAAATAGTAAGAATAGTAT  
CATGAGTTCCTGTGTTGTATTCCCGCCTAACTTCAATAATTATCAATAGTCCACCATTCT  
TATTTTACTTATACTTCCCTCCCCAACACCTTACTCTTTTGGCGGGGGCTGAAATTATT  
TTAAAGTAAATCCCAAGACATATCATTACCTTTAAATACTTCAAATGTATATCTTCTAA  
CAGGATAAAGGACTTTTTTTT

## Sequence 779

CCCTTAGCGTGGTCGCGGCCGAGGTACTACGAAGCTGCAGATCATTACGCTGATATGAAT  
GACTGCTTGAAAGAACAATGACTCTGGCACAGCCACTGCTTTTCACCCAGGAAAGCAGTT  
TTTACAGAATGGCTTTGATTTATACTTTGCACACCATTGAGAGAATAAAAAAGAAAATCT  
AAAAGTTAGTCTTAGAGCATACAACATTCTATATACTATTTCATCACTTTATGTGATA  
ATGATATAATAATTTATATACTGAAATTATTTTCAGGATCCACTTACTGTGCTTAAACC  
CGAAAGTGAATGATTAAAGAGGCAATGGAATTATCTAATGTATCTTTTATAAATTAAGAA  
ATCAA

## Sequence 780

CCCTTTTCGAGCGGCCGCCCCGGGCGAGGTACAGACAGTGTGATGGATGATGCTGCTGGTTGT  
AAATTTTCATCGTGTGTGTCTAATTTTTTTTCTGTATGAATGGGGTAAAAACAAAACANN  
AACTTTTTTTTAGGAAGATTGTAATTTTGCNTGTCATGTTTTTNGTAGGNAATGAGGGGN  
ACTCGTTTGNAGTCTTACCTAACNCATCCCTGNGNAGTTTNTGAAGTTTTGGAAAGNCC  
ATTGAAANNATTGTGTTGCCCCCAATGNCCCTTGACCNGCCTTNACAGTCCGNCNCTT  
NNGGATTCTTGCAACCGTTGTC

## Sequence 781

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGCGGATGAG  
TCTTTTAATAGAAAAACACACGTGCAACAGTATCAANACACATTTTTTNGCAATCCTGAC  
AGCAGCTGAAC TTCAGTTCTTACCTTGGGGGGTGGCCTGTACATATCAAAATCTATCAA  
ATTGGACCCTCAACTATGCATTTTTCTGNGTGCAAGTTATATCTCAATTACAAACAAACA  
AAAACACAAAACCTATGGTTAACCCAAAACCTAAACTATNACCAAGAAATATCAATTGG  
GGTTATGGCATGACCATCCTCCCAAGAAAAATAAATGCTTGACAGATTCTGAGCGGGA

Table 1

## Sequence 782

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATAAATGAGTTTGCAGTGAATTGGGCCTT  
CAAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTNTTTGAGCAGGTGGAGGTCACTGA  
ATCCCCTACTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTTTT  
TAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTTTGTTGTTTTATTCTT  
GTTTTTTTTAAGTAGTTCAAATCTGAAACTGTGATTTAAAAATTTTTACAGTCAAGCA  
TTCTGATTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAAGGTCTCTCTGTTATCTC  
TTAAATTT

## Sequence 783

CCCTTAGCGTGGTTCGCGGCCGAGGTACTCTTCACTGTCTTTGCCATGAACTTTATAACA  
TGGCTCTCCAGGTGTTGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCGG  
CAATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGTGATATTTGAGGTATCAG  
CTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTACCTNTCCCAACCATTGTC  
TTAACTTCCCTGGCCAGGATGCCTGCCATATTAAATGGAGAGGAGGCAGTTTCTAAATGG  
CTTGACTTTGGTTGAAGTCTCAACTCAGGAAGCTCTGAAATTAATCCACCC

## Sequence 784

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGG  
TCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAAGTTGAAGATTAGTCCGCCGTA  
TTTCGGTGTACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGACT  
TCTCTTAGTCANGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTAGAAGTCTTAA  
TAT

## Sequence 785

CCCTTAGCGTGGTTCGCGGCCGAGGTACAAGAGGATATGTGTGCATTACATGCAACCACTA  
CACCATTTAATATCTGGGGTGTGAGTATCCGTGGGTTTTTGGNATCCGTGGGGGTCTCG  
AACCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCTTGTTT  
TTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTTTATTATTGGTCTTAAAG  
ATAAGCTTANATGTTGTTACTTTTTTGGAGTTTTTAGTTTACAGTGATTTTATGAATCGG  
GCAGCTTCANACCACAGGAGACATNAAGCAGGTTTNAATTTTCAANGAAAGGCNTTTACA  
AGGCAAAAATATTTTGATTTGGTTTAGA

## Sequence 786

TGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACTAAACTAAACTGAGCAGTTTAA  
ACATTCATTTAAAGGGATATCTAATGTGTTTATTATTAACATAAAATAATGTTTTATGAA  
AAATGTAACCTTNGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACA  
TTATTGCATCTCAGTTGAAAATAAATGGCAACAAAATTCTTATATCTGCTTCTGCAGT  
TAATCTGNTCATTTTTGTTTTGGTTGAANTATATTGAAGGAAATCTGTTCTCCACACAGT  
TTGTGTAGTGGGAAAAAGGGGGGAC

## Sequence 787

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGATTCTGTTAAGCAGGCATTGCTTTG  
CCCTGGAGCAGCTATTTTAAGCCATCTCANATTCTGTCTAAAGGGGTTTTTTTGGGAAGA  
CGTTTTTCTTTATCGCCCTGAGAAAGGATCTACCCCCAGAGGGAGNAATCTGTAGNACAT  
TCTTTGCCTACTTNTTACTTTTATTTAGGCTNTTCTTCCCTNCAATTTCAATTTTCTGT  
ATTACCACCCTTTTTTCCCTTTTTTTTTGGGGGGGAAGA

## Sequence 788

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGC  
TTNTATTTTCGACCGCGATGATGTTGGCATCTGGAAGGCGGGAGCCACTTCTTCCGTGAA  
ACTTGGCCGTAGGGAGTAAGTCGCCGAGGGTCTNCNAGNCGTTCTTTNCTTGAAGGATGC  
ANAANACCCATGGCGTTGNGCGGACCGCGCNTCTTCTTCCATNGGAACATTCAAAGGNN  
AGNCNCAAGTTTTGNATAGTANTGTAANTTTGGNGGGTTAAAAAACCTNCCCAANGNAC  
CGGCCCTATTGNAAAAAAGNCCTTGNCTCCAANTGNGGCCCCCTTGGGGTAAGTNA  
AAAAAGTCCCTTGTAANCCCCAAGGGGCCCCCCCTTTTTTTGGGGGAATTTCC

## Sequence 789

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTAATTTCTTTATAATTTGTTTCAGCTATTT  
AAAAAGATAATCCACAATCTCCTACCGCCATTAGAGCACAGGAAAAAAAATTCAAAAAT  
AAAGGAAAAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACATATA  
CCCAGGCCTCAGCGGTGGGAAGAAAACATAACACCACCGGGCAAAATGTTTGAACACTGA  
AGACGGGAATTTTTTAGGGCC

Table 1

## Sequence 790

CCCTTAGCGTGGTCCGNNGCCCGAGGTAAGTCGCCCTTATGGAGCCCTTGATTGAG  
GCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTCAGGGAATGAAGTAAGTGTTCCTT  
ATGTTCCGTGTGTTATAACACCTGATTAAGAGAAAACAGAATGATGAAAATGAAAAGCCG  
TCTTAAGTGGATTCAAGTTTCTCACTACATAAAATACAGAAAAGTCAAGGTGGAGGCAAG  
ATTCCCACCCCTCTCCAGCAGAATTGGCATTCTGCGTCCTTACCGGCTTTCTGTCACGTGG  
ATTTCCGCCTGTTTCTCATTCGCTCATGGAAATAGTTTCATATCATAGAAAGGCAAACA  
GGAGCTGAGCCAGTTTGAAACTGAACCTACAATCTGAGGTGGGGGGTAATCTCGAGCAGA  
AGTGCTAGATGGTGAAAAACAAGTAGGACTTTCCGGCTGATGGGTAGAAACAAGGACCTT  
NGTAAAGAATATTCATGTGCTCAAAAAGGAATAACTTCCTGGCTAATTCCTGCGTTTTTC  
TCGTTTTTAAAAATTAATTGGATATTATGTTTTCTGCTCTTAAAAATTACTNNGTNCACAG  
AAGTCTACCAAAAAAAAAAAAAAAAAAAAAA

## Sequence 791

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTAATTCCTTTCTCT  
TTCCTAGACCGATTCTAGTTTGTTGCCTTCCCTTTCTCGGAAACCCCAAGTTTGTGGAT  
GCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAA  
GACAGAGACGATGTGGCCTTTGTCCTTAAGAATGAGGTTTGAAAGCCTCAGTTCTTCCAT  
GTTAGGTGATTNCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAATA  
TTAACAGCTTTATATCATCAAAGTTTAAACAGTACCTGCCCGGGGCGGNCCGCTCGAAAG  
GG

## Sequence 792

CCCTTAGCGTGGTCGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTGA  
GCTGAAGGCCACAGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTAACCTTTA  
CTGGCTACTTTGTANATAACATTCACAGCTCACCATGAATGCAGCTGCAGTCAACTAACA  
NATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCTTNTACCTACTGGAGG  
CTGGGGAGGAATGTAACAGCACAAGCCATAATGAAGTTTATATACAGGCTTAATATAAAA  
NAAAACCCTAGAATGAACTCAACACAATTAT

## Sequence 793

TTTTTGCAGAAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACCATGCAGGGATAGCTG  
AGTCTTCATCCTCCTCAGCCCCATCTGTTGAGTGCAGTGAACACCAGCTGCTCTCTTCC  
TCTCTGGCTCCCATGGCAGCCATGGTCTGTTGTCAGAGAGAAGAGGATTGCCTGTTCCCTC  
TTAAGGGAACCTCCGTTTTGCTTTCTGGAACCAC

## Sequence 794

CCCTTTGAGCGGCCGCCCGGGCAGGTACGAACCTTAAATTTATGATGAATATCTTTGAT  
AATGAGAAATCCTGAGAGATTTTACTTTCAATTTTATTTTAAATTTGAAAGAGCATATGAC  
ATCTGGAATATTTTTAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAATA  
GAGTAATTCTACTGTTGGATTTTAAATTTTAAATCATATTAAAGTTTAACTGGATTTTATT  
TTAGGACTAAAAATTTAGGACTAAATAAAATTTTATTAATTAATTTAGGACTTTTGGGA  
AAAGATATTTCAGAAAGTTCAGTGCATATCAAAAAAGCGAACAACAGAGGCTTCATCTTTT  
GAAAACCTTCATTGGCTAAAAGTGTCTTCTGTAATACTGATAGTGAAGAACTGTTTTTAC  
ATCCCGAGATGTGTTTGATG

## Sequence 795

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCTAGGTGATCTTTGGCTTCCTCAAGTTTTTG  
CACCCTCAGAAATCATTTATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACT  
GAAGGAAGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCCTAGAAGAAAGAGATT  
ACATGTTTATCTTTTTGTTACAGAAGAACTTTGAATAGCAGTTGAAAATTTGGCAGGGT  
GGACCACCTAAGTTGACAGTGTATTATTGTGTCTGTTTTGAAGGAATAAAATGGAATTAT  
TTATAAAGTTTTCATTTGTATTAGAGA

## Sequence 796

CCCTTAGCGTGGTCGCGGCCGAGGTACACTATCTGACCTAATCCTCAACACAACTAAGG  
CAGGAGACACAGGGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTAT  
CAATCTGAACCTATATTATTTTAAAGACCTCAGGCATCACTGAAAGATGAGTATTATTA  
GTTGGAATTTTAGGGATGAGAAAAGTACCCTCAGGGAGAATAACTGACTTGCCCCGGCT  
CCAACAGTAAGTGGCCCTGCTGGGATTTGAACCCAGGTGTGTCTGACCCCGAAGCCTGAT  
CTGACCTCTGACAGTCGTGATAAAAAATAAT

## Sequence 797

Table 1

CCCTTGGCCGCCCCGGGCAGGTACCGAAAAATGATTTTGTTATATATATTTACCACAATAA  
AAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTCAGGTATTTTTTG  
GTTTTTTTTCTCTTATTTTATTTTTGACCAATGGATTACGTCACCAGGTGATTTTT  
AAACAGCTTTATTGAGATATATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAG  
TTAAATGTTTTTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCA

Sequence 798

CCCTTTGAGCGGCCGCCCCGGGCAGGTACAATTTTTATGTTTACAGCTGTAACCCCTGAG  
TTATCAAGAGATGGAACATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCT  
TGATTACATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGAAAG  
GTTTTGATTCTTATGAGAAAAGAATGAGATTTCTTAACTGGAAAATTGATTTATGTCCT  
ACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTATCNCAGGGTGTCTGNAGAAGTA  
TCTATATATTGCTTTTTAAGTTCTTAT

Sequence 799

CCCTTTGAGCGGCCGCCCCGGGCAGGTACCATGTAGCTCTACTTTTCCATATACAGAGTT  
GTTTCCTAGCTTTCTGCTAATCTAACTGGATTCTCTTCCCCATTTCTCATTTACTAGA  
TTATAATGCACATCACATAATAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTTCTT  
TTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCATGATTCAAGTGACT  
AGGCTGTAGCACCCAAGAACCCTTGCCTTAAACAGTTTATTTTACCCAATAATACTACTT  
TGCCTTCTTACTTAAAAATGTCCCGTGCTTAACCCCTTTGCTCTTATTTTGATTTAAGC  
ACTTGACC

Sequence 800

CCCTTAGCGTGGTCGCGGCCGAGGTACTNTCTATTTTTAACAAGGCTCCCTCAAGATATT  
AATGTGACAACTTACATAGCCAGCTGTAAGATAATTCTTCAAATGCGCAAGTAACCTA  
ACAGATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTTTCC  
CAAATCTAAATGAATGGAGATAAAATGCTATATAAATAAATATGTTAGAGCACCTTTCTT  
GAGAACTTNTAAAAGGAAAAAATAAAAGACATAATTATACTCACACCACCAGTAAACC  
TCTGGTCACCTGTTTTGGGTGTGGGAATGCCCCCAGCAGCCGAGAGACCTATATT

Sequence 801

GATGGATATCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATTATTCTCC  
TGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAAGTGTGAGTTTTGCATTCCAAGTTGCTA  
ATTCAACATAGATCCTAATTCCTTAAATGCTTGTAATTAGAAATCTCGTGAAGTGTATT  
GGTTTTGTCAAGCAATCTGTTTGGGGAAGTGTGAGCAACTGGGGCACTGCTGGCTAGGGT  
GAAGTTTATTTAATTTGGTTTTATGACATTTCTCATCTTGGAATGGGGTTTTCAAATAT  
TGCTTTCCCAAGCATCACTTATTTGCTGGTTTTTA

Sequence 802

CCCTTTGAGCGGCCGCCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGACCTGCCTCAA  
ACATTTTCTGTGTGACCTGAGGCANGTCTTTTATAGCTATAAACTAGGGACAATATTTG  
CTGTCATTTTTCTACAAATGTCACAAAGAACAAATTTGAGCCTGTCGCTGTGAAAGAAC  
TTAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATATTTTATCCAATTAAGT  
TTTCAAATGAGTTTATTTGCTCACTGAAACTGAAGTACCTCNGGCGGGACCACNCTAAG  
GG

Sequence 803

CCCTTTGAGCGGCCGCCCCGGGCAGGTACGCGGGGGGTTTACGCTGTCTCTTACTTTTAAAC  
CAGTGAAATTGACCTGCCCGTGAAGAGGCGGGCATGACACAGCAAGACNAGAAGACCCTA  
TGGAGCTTTAATTTATTAATGCAAACAGTACGCTTGGGAGTCCTCAGCAGGGGGATCATT  
CACAGTGAGGACAGACACAGGTGAACCTATGGGTCTGGAACAAAAGTTATCCTACACCT  
GAAAGAAGACCANACTGAGTNCCTNNGCCGNGACCACGCTAAGGGCGAATTCCATCACAC  
TTGGCGGC

Sequence 804

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGACAGTGCCTTTTAAATTCATTTTGCTG  
GACAGTTGGCAGGCTCTTTCATTTGAGAGGCTTATATCTTAACGATTTAGAATGGAGAGT  
TTGGCTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTATTCAG  
AGTCTGGAGGCTTCTCTTTTTAAATTTGCTAGGCTCCTGCCAAATGTTATAATTTGGGG  
ATGTGAGTTCACTAAGAAATCAACTGACAAGAGGCAGATTAATAGGAGAAATGACATCGA  
AATTTATTAGCATGCAGGGGGAAAAAATTGATTACCAAATATCCCAGTAGGGTAGAGATG



Table 1

CTTATATACCCACCTCTTAAGAGAGAGGGAAAGTGGATGATTTTAGGGGAATAGTAAAT  
ACTTTTTATGGGAACCTCACTGGGCTTGAAGAATATAACAAAGGCCTGGGACAAAGTCTGT  
TGGGCCCAACCAGAACAAGACAGTGGTTTATGACAAAAGTCTGTTGAGAATGATTGAACA  
GACTTCAATCTTTCTTCTTGAATATGATTCAAGTTNAAGGAAAAGTCTAGGGAAGGGACTA  
GAGGGAAATNGT

## Sequence 805

CCCTTCGAGCGGCCGCCCGGGCAGGTCCGGGCAGGTACTATTACTAGGTTTCATTGTTTCC  
AGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATT  
AAGTGGTAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCTATTC  
TCTTGTAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA  
AAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGCTGGGATTCATCCTGGCTTGTCTG  
ATAGGTCAGTTAGTCTTAGAGATACCCATGAGGTCACCTACTCAAATGGGGCTCAGAGT  
AGCCTTGTCCCATTTCTTGTCCAGTGGGCGCAGCTACAGTCTTCCTGGCCTGGAGTACG  
GAGGCTGTCCCAAGTCCCACTTCAGTGAGGCATTCATGTGCACCCAACACACTTTCTAG  
CTTTATTGTGCTGGAGGGGAAGATTCTCCAGAACCCTTGTTAAGATGCACAGTGTGGTCCT  
CGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGG

## Sequence 806

CCCTTAGCGTGGTCGCGGCCGAGGTACACATATATACACACATATATAGATATATACACC  
CACATATATATTTGCTGACATTTTAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATG  
TATGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAATTTTCCAA  
AGCAAAACATTTAGTTGAGGATTTTATTAGAAAATAAATAATCATTTAGCCATATCTAG  
AAACCAGAATAAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCATAAATAT  
TCATGTGTTTACTTTTACGTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTA  
CTCCGGTCTGAACTCAGATCACGTAGGGACTTTAATCGTTGAACAAACGAACCTTTAATA  
GCGGCTGCACCATCGGGATGTCTGATCCAACATCGAGGGTCTGTAACCCCTATTGGT

## Sequence 807

CCCTTTGAGCGGCCGCCCGGGCAAATCCCATGATGTCAGACCACTGGAGTTTCCAGGG  
GCAACACCCCATACCGTCCCGCTGCAGAAGAGCATCANANGTTCAGAAGATGCAAAGG  
ATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTAGGGCTCTCTAGGC  
CCTTTACAGGCTAGATCTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACTG  
AGGAAACGAAAGTTTCGGCCTCTGCTGTCAGATCTATGAAAGGAAAGAACTGTGAACTTG  
TCCCCTTTTGTCTTTTACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGT  
AATAACAGAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGCTAA  
CTTATAGCATCCACTGAGATTAGCCCGCATAGGATTCCTCCATGTTAGAGCTAAAAGGA

## Sequence 808

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCCTACCTATAAGGCATTTATAATGTGCT  
GGGCATTGTGACACTTTTCATATATTATCTCATGAAATCCTCACAATAATTCTGAAGGTA  
GCTGGTATTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAATTCAGTGGCCC  
AGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAAAGTAGCAACTTCTAAGTTTC  
ACTCTCCCACTTCCCTAGTTATTTTCTAAGGCATGAATGTCTGGGAAATAGCATGCATC  
AGATTTTCCACCTCTTTAAACTCTTCAGTTCATATAATTTAAGGGTGTGACTATTCATA  
GATACCTTTGAGCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAAT  
GCACGCTTNCCTGTAAATTAAAAATGCCAACCCGAGCTTTGGGAAAAGCCCATCTTTTG  
ATATGAACAATTAGGGCAGTTTAAAGTTTGAATAATNAAGAAAGTCCACTGGTCTGCTTT  
T

## Sequence 809

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTCTTTCTTTTTTTTTTTTTTTGGAA  
GAATATTGCATACCTATTAGAAAAGTCTTTTAAACAATTAAAATTGGAAAATGACTGACAA  
ACTTACACTATTTGATTTAAATAAAATAAATAAATGGTCACATGATAACAATCTCCTGATT  
GATATGCTTTATTTAACCAGGTTCTCAAACCATGGATGTGAAAACCAAATTTTACAATG  
CANAGGTAAGTGTTGAGTGTTTAAATGGGATTTTCATATTAACATTAAGATCGTATTTGAC  
TAAAAATCTCTTATATACATTTCTAATACTGAAGCAAATCGCCAACGTGACTGTAAATTA  
TTTGAAAAATCACAAATTTTCAAGTTAAATTTGAATAATTTTATTATAGGTCTCATAATCT  
TTTTAGCTTACATGGAATCAATGTGCTTGATTTTTATTCTCGGTAATTTTATAAGGCC  
TTCATCTCCTTTGCGTTAAATGATTGCCCTCTCATTCATTTAATGGNGGTTGTTACACT  
AGCAATCTGTTGGAATATTTACATGTGGGTTCCGGATTTTCCAAAAATTGGAATTANTAG

Table 1

AACCTACCGCTGCAAAATAGATTAATATTCACATGGGAAAAATCCTGGNCAAGGGGAANT.  
TTCNNCATTAAATNTTTNCAGGGGAGTCCGGTTGGCCANCCAGAANTAAGGTNCTGGGT  
TNGGGGGAATGGCTTAAAAGCCCTTGGGAAAAACAAATTGGCCAAAAANGGGAGTTACCT  
TTTAATTGAANAANTTTTTTTTACCCTNAAAAANGGGATAAAATGNACTTGNCCNAAAA  
AAAAAAA

## Sequence 810

CCCTTAGCGGCCGCCCGGGCAGGTACTCCATTTCTTTTTATTCATATTATTCACCAAAT  
AATATCCACTGTGTAGATCTATCACATTTCTTTAGCAGTTTATCAGCTGGTGGACAAT  
TTGGCTGTTTCCATTTTTTGGCTGTTATGAATAATGCTGCTATGAGTCATAGAAACCATT  
CCTCTTACTCAAGAAACAGGTTCTCCAGAACTAAGCTAACTTGTTTGAAATGTAAAT  
CTCAGGTATTCTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCCAACCTC  
TTTTAACAAGTCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAACACTGTCAAAA  
TCAAAATGGAGTCACTTGTTGTTTAAAAATCCTGACAAATAAGCCAGGGACAGCTATGAA  
GAGAGGGTTCTCATGCATCAATGCCTGATTAACAAAACTATCCCAAATGACTCTGCAAA  
AACCC

## Sequence 811

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATTAAAACTATGTTGTAATACTGTTTGTC  
TTTGATCCATTCTGGCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTTAT  
ACCAATATAATGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTATTTGTTCA  
ATTATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACAATATCTTCAAAGCCA  
TTATTATTCAGCTTAATGAAGGAAGTATTTGACTGGTGCAGCAGGCACAGAACTAAGAGG  
AAAACAAAACCTCTGAATAACCCCATTTGTTCTCTCTAGTTATTCCTGGCTCAAATGTTG  
GTTTGTTCCCGCGTCTCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGCG  
GGCGTTACTAGGTGGATCCGAGCTCGGAACCA

## Sequence 812

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAA  
AAAAATTTAATAAACCCCTGTGTGATCCATTGTAACAGAAAGGCTGATGTTTTCTGTTGT  
GAAATACAAATGCAAGGAAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCTTCCATAA  
AGAATAATTTGTATTTATTTTAAGGGTTTATTTAACTTATACATCANCCTATNTAAAA  
TACATTTCAAATGATCTGTGCTCTTTAAATTACCAAAAGCAA

## Sequence 813

CCCTTGAGCGGCCGCCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTCCCTACATTAC  
TCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGG  
TGAAATACTCCACANTTATTTCACTGTTCTCACTGGTGAAGTCTGAATATAAGCTCTATGAGA  
GCAGGGACCTTGTCACTTATTACAAATATCCCCAGCCTCTAGAACAAGGCTGGCACAT  
AGTAGATGCACAAAAGGTGTTTGTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAACTCAGTTTTCTCTGTGGGTTTACAGTTTACTGG  
TCTTAAGAGGAGAGTTTCTAACTTGCTTATGATAAAAACCACTTCAGCATTTGNTA  
AAAATTACCCATTCTGTAGATTCTGAGTCAGTGAGCTGAAGTGGAGCTGATGAATCCT

## Sequence 814

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTNTT  
TTNNCA  
ANNATTAATAAAAAATTTTACTACAAACAGANAAACGAATTAACTANNANCCT  
AANATACTTTNTGGAATTGAAATGATACATTATATATACCTATNANGATAATNGNNTATA  
NCGNNNCTAACTACAAATTAGTCATAAAAANGACTTNTGTNCTATATCAATTAAAAACT  
GGTATTAATAATTGANTATNATAAGACAATA

## Sequence 815

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAGTATTATGTATCCATAAAAAATTAATAAT  
CTTTAAAAATGCATATGGGGGTCACTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGC  
CGGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGGAAAAGG  
CCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGAAATTTTATATT  
TAATCTTCTCATTTTTAAGTGTTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGT  
CAAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAG

## Sequence 816

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGAATAGCTATTGGTCTTCAAGTGGGTTT  
AGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAAGCTGATTA



Table 1

TGTTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTACAGAAAGATT  
TTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTATAAGCAGAGAACACA  
GCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTC  
AGATTAAGTCATCCAAGAAACATACAT

Sequence 817

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACATGTAATAGACACTA  
TGCTACAGCAAAAGCTTTTCTTATTGTCTTTAAATTTTCTGGGTGCATAAACTATGT  
GGGTAACCTTTCCCAATTTTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTC  
ATTTAACAAAGGCAGATAGAAAGGCCTCAAATCCNTGAGGACCAAAAATCCCAACACATT  
TTCAAAGGGGAGAAAATTTCTTAACTTCATGGGAAAAGTATTTTAAACATAATAGAGA  
GGCTTTATGCAGTCTTTGACAAGATGATACTTTTGAATAGAACAAGGAAGAGGAAAATA  
TTTCATATTATAAA

Sequence 818

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNATTTTTT  
TTTTTTTTTTTTTTTTCNNTTTNNATTTTGACTTTTTTTTTTTTTTTTTNNAAAAAAA  
ANTTAANTTTTTNAANNNTNNTTTTTTTTTTTTTTNAATNTTNTNNTTTTATTA  
ACAAANGAAAAANTNACTTTTTTNTCCAAANANNCGGCCTGNAAAAACNTAAAAACAAT  
GCNNGGATGGANTCAAANTAAAAAATTTTTTCTACGGAAAAANAACCTTTTTTGGT  
TTNTTTTAAACAAAAANNTAGNAAAATTCNNTTNTTTTAAAAAGNTAAATNGGNTTTT  
TTTTTAAA

Sequence 819

CCCTTAGCGTGGTCGCGGCCCGAGGTACAACTGTAATAGCTATTGGTCTTCAAGTGGGT  
TAGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAATATTCAAGAACTGATT  
ATGTTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTACAGAAAGAT  
TTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTATAAGCAGAGAACAC  
AGCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTT  
CAGATTAAGTCATCCAAGAAACATACATACATTCTAAATGGTATATATTGGGAATATATG  
CCCCTTTAAAGAATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGT  
TAGGAGAAATGTGTGGGTATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGTTGT  
CCAGTTTAAACATAGTCTTAAAGTTTTCTTAAACCCAAATAATTTATGA

Sequence 820

CCCTTAGCGTGGTCGCGGCCCGAGGTACTAGAATTAGTTCCAACCTACTGCTGGTGATAAAC  
TCACCATCTACCTTCACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAG  
AATCATCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATCTACTCTTA  
AATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTAATTCAAATTGCTCTT  
AATGATCCTAGAGAGAAATGAATTACTAGAGATAAAAGATAAATTTTGCTGTGGTTTGGC  
ATCTTTGTTTTCTTTCTTAAACTTAAACA

Sequence 821

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGGAACCAGACCTTACTTAAGCCCACCAAAGG  
CAAGGTTTGGGCCTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTT  
AAAATGCCCTAAGTGGCTATTCAAGGTAATATATAAAAGTAAGACCAGGCTAATTAGTATA  
CAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGCCTACCACTGCTTGGC  
CTCAGTGTGAATTTAGACCCCATCTTCTGATATTTAGGAGAAAGTAAAAATCTAGATT  
TTATCTAAAATCTTTTTAATTTTTAAACAGTCACCTGATT

Sequence 822

CCCTTGAGCGGCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGAAGGACTCTTAGAGA  
CCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTA  
ACTTCCCTCACCACCTTTCCGATATGGACAGTTCTCATGCCCAGAAGCAAAACCTTCTTT  
ATTGTGCCTGTCTCCCTTGACTGTGCATGATATAATCAGCATCTTCCCACTAAGTGAA  
GGGCCCAGACTCGAGCACAGGAGCACAGCACCCCTTAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCAATT

Sequence 823

CCCTTAGCGGCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTT  
GAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCC  
TACGTTTGTGTTCTGGGAAGAATCTTGGACTCAGGCGTGGGCAGCTGGATGCCTGGGT  
CCTTAGGCTTCTCCAGGCAATGTAGTTGCCTCTTCTCTCCCGCGTACATAGTAAGTG

Table 1

TATGATAGATGTTTGATTTGTAAATTACAAATATAAATTATCACCCCCATTTCCATTTAT  
TTTCTTGATATATCAAAATGTGTTG

Sequence 824

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAG  
TTACAGGGTGAATCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAA  
TTGGGAGATATTAGATGATGACATCTAAGTATTAATAAGGAGATATTAATGATGACT  
CCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGTGGGAAAGGACAGTTC  
TTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTTGACAGCTTCGCCGACACGAGGTGACC  
ATCTGCAATTACGAAGCATCTGCCAACCCAGCAGACCATA

Sequence 825

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCATGGCTTTTTGGTTCCAGCANTGAGGGC  
ATTGGTGAGATCAGTGGTAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAAC  
GTNANGACAAATTTTGAATTTTAAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAAC  
AAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTGA  
AAGGTGGTCTGTGGATCTGTCTGAATAG. AAGAGCACAGTNAGTATGCATTGCCGGAGAA  
AACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTG

Sequence 826

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA  
TTGTGATACAGGAACTGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTA  
CCTCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGACATCCT  
AGAAGCTTCTCTATTACCACAGNACTGGCTAACTANANATGATCTTTCCCTAATTTTCA  
TGAGCATCTTTTTCTGATATAAACCAGGGAGGGAAAAAACAAAGTTCCTTCACTTTGA  
AGGGAATATTC

Sequence 827

CCCTTAGCGTGGTCGCGGCCGAGGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGT  
TCACTTAATTTTTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTT  
TATTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTTTTGA  
TATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTTTTTAGGGAAAAGGAGAT  
ACTTCACCAGGAGGATAAAAAAGGAACAAGAGGGGAAGGGGAAATAAAAAATCCAGAAAGA  
TGA AAAATTGTTGATGTAAGATGGAGGCACATTTT

Sequence 828

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACAAGCTTTGTTAACTAACCTTGCCATCC  
TGGCTACTTTACCCAATTAACCACCCTAGCCCAGGACGTTTTGCTTTATCATATGTTTAC  
AGTTTGCTATTCTTTGTTCAATCTTGTAAGTACTGCAACTGCTTCTGTGGGTCTCTGTT  
TCTTTATGAAGTTTCCCAGGCCATACAAAACCTGTGTTAGCCTATCTTCTGTCAGTTTAA  
TTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGGAGAGTTTTTCCCACAGCAGTTCTG  
AATGGGATGAAGTGA AAAATAAAATCTCCCCATTGCCACTACACCACCTCCTGATGAGTC  
TTGCAGCAGAAATACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGT  
TTTATATATTTTATATCTGGGGGCTTTGATAATTATATATACATACTTTTTTGAAATTAT  
TTACTTATTTCTTTACATTGAAAAGGAACCTGCTTTGTAATCTAAATCCCTTTNCCTTC  
TACATTTTTTTT

Sequence 829

CCCTTTGAGCGGGCCCGCCGGGCGAGGTACTCACAAGCAATAACAGATTCATAGATCAGTT  
GACATTGGCTGGTCTCCAGGACAGGAATGTGGCCAAAAGGGTGCTTTGTATAGACGCGGG  
GCACTGAATCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAAT  
ACTTTCAGAAATGATTTTTTACTACTGCAAGTTTTTGGTCTTTAAATGTCAAGTAGCATC  
TCTCTCTTCTCTCTGTCTCTTTCTGTTTCTCTCTCCAGTTTTTTTTTTTTTTTAAATTT  
CCATATGGGCTAAAGAATCCAAATATTTTAAAAATCTGNCTCTCTTTTCTTCTCTCATAA  
AGTGAATTATTCCTCTTTTTTGTGTTTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAA  
TCATTGTAATGCTAACTTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCTTCA  
ACAAAAAAACCTTTAATT

Sequence 830

CCCTTTGAGCGGGCCCGCCGGGCGAGGTACAAGCCATTGAATAAGCCTCTTCTTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTTGTGTTTATATAACATTTGA  
TATTTGTTGTAGCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT

Table 1

TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTTAGAC  
TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGA  
GCTGTGACCACATGCCAATATATGTGTCAAAAGTCTACATATGTTACATTCCTTGGGAAG  
TCTCCTTAAATGTTTCACA

Sequence 831

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGAAGTCACCACT  
AGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAA  
GGGTAGTTATCTAGTTTCCTTCTTTTCTTTTTTGGAAATTTGGTCTTTTAAGGTCTTGAT  
AATCTTCTAGTCTAGAGCATGTGAACAGAACAGAAGGAAAATCAGGACTCAGTTTACTT  
AATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC  
TCTTATTAGCATGGATGCTTAAGAACTTCANGGGTTTGGAGGTCAGCTTGAACAGCTGTT  
TTTTGCACTCTCCCTGGTTTTTAGTAGCCTGAGTCTATAAAAAGAATACCACTCGGGTAA  
AAGCTAATATCCTTTAANCCATTTTTTACCTTGATACCATTGCATTAATAAAGNATTATT  
CAATGGGCTTTTCAATTTGCTTTTTTGGGCCTTTTTGGCTTNAAANTCAAAGTGTNAAAAAG  
AATTGCCATGGNTTTAAAAA

Sequence 832

CCCTTAGCGTGGTCGCGGCCCGANGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGG  
ATCTGTAGTGTAAGCTAGGGAGAAAGAGGAAGAGATGCCTGTTGAATTTCTGTAACATA  
GCGTATCTCCAAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGATGGAA  
AGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTAACATACACTCCCTCA  
CCCCTACCCCAGCTTAGAAGGGCAGGAACCTGCTGTCCAAACAGGAAATATAGGAAAT  
CCAGCTTGAGAACTATCCACT

Sequence 833

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNCA  
AGTAGAAATCAAACAGTCCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGT  
TATGAACTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCATT  
AGAGAGACTGTTCCAATACTCTCATTTAATTGGTGAAAAATTAATATTGTTTAGAT  
ACTTACCTAAATATTACTAGTTAAATTCAAAGTAAATGAGTCTGTATCTTTAAAACACT  
TGGCAGTAATAATTTTTAAAAGTAGATTTTTATTGCTTTTCTTGAACCTAAGTGTTC  
TACAACACAGGTAGTTTTATTTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAATG  
TTCACAATCAACGCCTGTCCCATTTTAAATCTCACAAGTTTTCTTCATGATTAACACA  
ATTCACAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCTGTGCTCTAGTAA  
TATACTTGNGAGGAAAAAGTAAAAAGGNCAAGAGTCTAATTCATTTTCACTTTTTAA

Sequence 834

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNTTTT  
TTATCTGACCACTTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTC  
TTTGTATCATCCATTCCATGTCCAGAACACATTACATCCATGCTTATAGTTCCCTCATTG  
CCTGAAGCCTGCTGGGTGGGGCATAGTAATACTTGCCCTCATCATCCCATTTTCA  
GATGCATAAACAGAGGCCAGTCAGTATGCCTGCAGACTGTGGATAGAGCCCGAAGCCTCA  
GGTTAGGCAGCTTGCATCCAGCTGTGAGTCCAGCTAGGGGAAGTGAAGTCAAGCCTCCATC  
ACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGT  
AGCTGTGAGTATTAATACGCTGATGCAGGGCAGGTGAGCCCCCAAATGGGGTTAG  
CTTGCGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCA

Sequence 835

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTA  
ATTTAATGGAAGAAAAGTCCAACCTTAATACTTTAATGGANAAAGAAGGAAGCANTATAA  
ATTTGTGGAGACTCCAATCACATGTCCTCCACTCTGCTACCCTGGGCCCAAATAAGGGA  
GGAGACACTCANAGCCAGGTGTTTCCCTTGATGGGAATGTGATCAGGNGCGACATGGGCT  
CACAGCTCNCCTGAGGCTGGATCTTTT

Sequence 836

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATC  
TAAATCAGCCTTACGTGGGATCTGCCCAAAGTATTATTTGCAAAGTATCATTTTCACT  
TTTAACTTTTAGGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGGCAGGCAGA  
GAGCTTGCTTTCTCAGCTTCTTACCCTTAGTAAGACCACTTTAGTAGGACACTTAAGTA  
TTTCAGTCAGCGGATTTGAATCTGACTTCTTGGATGCATCTGTATCAAAACATACCATTA  
GATGTGTTACAGAACTGAGCAGCATATCATTAGATGTGTTACAGAACTGAGTCCACTTA

Table 1

CAATAATTAATTTAATTTCAATAGCGATCCCCACCATTTATGTCCTAGGCATCTACACAA  
TTGGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTTTGCTTTGGCA  
TGTTTTACAATCCCGCGCA

## Sequence 837

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCAAACT  
TTAATAGGTTTTCTTAGCTTGACAACCTATTCTCTATATTCACNAACATCTCCTGACTTG  
TTCCTTCAGTGGANATACCCTTTTCTAGCCAGAGTTGGCAAAAGTAGCAATAGCATGCAT  
TGGCTTGTTTGANAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGGAGGTCTGTTATTG  
TCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCTTTGAAAGAATATTCAAAGACCAA  
CACAAAAGAGAACATTTCCAGATCCAAGAGAGTGTATGTAGAAACAGTGACAAGTTAGAA  
AATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAA  
TTTATAACAGCTGAAAAAAGAGGGAGGATGCGGAAGGTAGATTTTGTGAGAACTTACT  
AGACTAAGGATTTATTGCATATTTTTTACTAATTAAATG

## Sequence 838

CCCTTTCGAGCGGCCGCCGCGGGCAGGTACTACAAAATAATGAAGCCAGCTAATTACCAT  
CAGGTTACAACCTTTACAAAGAAGTGAAGCAGCAAAAGAGCTGAAGCAGAAATGACATAGGA  
AAACAGCAGCAAAAGTCTTGTAGTCCCAACAGCTCCACCTCAAAGACAAACATACTAAAGAA  
CAAAGGCCCTAATCCACCTCCTCACCGCTACTTTTTTTTTTTTTTTTTTTTNC  
CAGTTTCTGTTTCAAATTTCTTTATTATACATCATGGTTGCACAATTTGAGGCTGGTTAA  
TACAATTGGTTTTCAAATCTCTTTGAATATTTCTGGCTTATTACATGCAATGACCAT  
GAAAATATTTGGCATTTTAAATTTCTGAACTCTGAATAGGCACTTGCATGAAGGAAAAC  
AT

## Sequence 839

CCCTTAGCGTGGTCGCGGCCGAGGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTTC  
TGGTCTTGTAGTCGGTTTGGAAATTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGA  
GTCATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGT  
CCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTGGATCAAAAGGGCGTTGGAGGAG  
GAGGCTGGGAGGGAATCCAGACAGTTCTCCGCTCTGACATCAGGTCCAGCTGTTAGCA  
TCGTGCTGTGGGTCCCTGAACAAGAAGCAAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAG  
GATCCAGTGTGGGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAACGTG  
GACATTCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATCCACTCACC  
ATTTCCCTCCTCGTTCTTCTTCTAGAAATAAGACTCTGACGCTCTCTTTTATACAGGCT  
AGTCCCCTATAGGCATGTCATGGTGATTATTTGCAATCCTNCTGACTTTCCTAAGAAGAG  
ATCANACTTAGCAGGGTTAGTC

## Sequence 840

GTGGTCGCGGCCGAGGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAAGAA  
CAGGTTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATGACCCGG  
ACTTCCAACCTCTAAATCTCTGTCTCATTTACCTCTTTGTAAATAATCATTGCTATTATG  
TTAAATATCACAACACTACTGTCATTTCTTGTTTACCCACTACATTCTAAGCTTGGTGCTGA  
CATCTTTGTATTTATTATATAAAATTTCTCAAATTACTCTGCCCGTTAGGCTTTCTTATC  
ACTTATTTCAAATGCAAAAATAAGGTCCAGGGAAGATAATTATGTNACTTGTTCATGATT  
GGAGAGCTAATAAGTGTGAGAGATGAATTNAACCAAAGTTTGGTGTGACAAAAGCCTCTG  
GTTTTAAGCAAAAGGGGAAAAAAATTCTCATTAACTCCAAGGATTATCATCAGGGAGTC  
CAACAGGGTTCCCAATTTGGGAACCTATATTCAATTATCATATGGCAAATGGGTCCC  
CTTTTGTTAGATGGAGAAGGGCCAAAAA

## Sequence 841

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACT  
TATTATTATCCCTTCTTTGTAGAATGTATCAACACTAAAAGTGTTAATCCTGACTAT  
AACAATTTTGTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTTTTTCAGTTA  
AAACAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCACTTGGTAAGTATTTTT  
AAAGTGAAGTCTATTCAGACTGCAACCAGTAACTATTTATGCTTATAATTTTTCTCAGC  
ATGGATTTCTGTTCTTTGGTGCATTGGTTGTGTTTATTTTATGTGATCTTTTTAGCTA  
CAAGGTGGGAAAAATGACAGTGGTTTGAAGATAAGAAGCACATGAATGTAAAGTAAAT  
ATGTGGAGATTTTGGCCACTCTGTAACTACTATCTGAAGTAGTTTTAAATATTTAAG

## Sequence 842

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCAC  
CTCACAGGCTCAAGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAA  
GCCACCACACTTATTAATGTAGATTTTCCTTTGTAGATGTAGATTTCTTTTACAAAGTGAC  
AGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCC  
AGAGAAGTATATTTTGGGGTGGCATATTCTAGTCTCCTCCAAGTCATATTTTGGGGTGGT  
GTGTCCTGAGCCCCAACAAAGATAGGTTTCATTTTGAAAATTGCTCTTTCAGTCCCCTG  
TTCATTCTCATAAGCCCAGGAATCACCACCTGTTGATTTCCTAGGCATCTTCTTGCTCAN  
GGTAGTTAGATGTTTGGTGGGACTAGAAAATGCAANGGAGGGAGAAAAGGAAAGGCTTG  
GTGNATGTCAAAGATTTTAA

## Sequence 843

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGAT  
TAGGAAAAATAGGTAGACCCTGAGTGAAAGTAGAAAAGAACCATTCTGGTAAAAATTCTG  
AAAGTAGAAAAGAACCCTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCTAAGACAGG  
TGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGAAGGAGAAGGGACCAAGAA  
GGCAGATACATTGCCCTGATAAAGAAGTCATTTTCTCTCACCTTTACATAAATATCAN  
GCCACTAAAAATCTAGGAGCACAAATAATGAAAG

## Sequence 844

GAGCGGCCGCCCCGGGCAGGTACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATG  
TCAGGCTCTGTGCTATACTTACATTATCCATAATCTTCAAGACCCCTCAAGACCCACACA  
AAGTAACACAAAGCAGGAACTAATCANATTTACTTGCCAAAGGTCACACAGTTAATAC  
ATGGTGAATCAGGACTCAAAATCANGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCA  
CTTACCAGGTAACCTTCATAATACCGGATTGGAAATCAAACCTGTCACTTTACTTTTCT  
ATGTCCCTGAGTGANTCACAACCTTTTCTTCANCCAGCTTTTTTTCATT

## Sequence 845

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCT  
TGGACCAATCACTGTGGCCAAATACATGAGGTATCCTTATTGGCTCCTTCTACTAGCAAC  
AGATGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGCAGATTGA  
ATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAACAAATCAAAGCTGATCCC  
TTTTTTCAAAATTTTAAATGTGACTCTTAGGGGATGGTGGATCCAGGAGAGAAGATTAGT  
GCCACACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCT  
GAGAAGAGAGAAATAGAGGAAAAGTTGCACAACTCTTCAGCCAAGACCACCTAGTGATA  
TATAAGGGATATGTT

## Sequence 846

CCCTTCGAGCGGCACGCCCGGGCAGGTACTTTATTTATTTATTTATTTATTTATTTGTTT  
ACTATTTACAAAAACAAAATGTAGCTTTCTTAAATTTGTAGTTAAATGTTTTCTTTGT  
TTTCCCAATAAAATGTAAAGTTTAAATATGTGATGGCTAAACTCCTAGGGGGGATAAGGAGG  
CGCTAGGAGAATAGGCAGGTTGGAAAAGGGTAGTCGGGACTTGTCCAGATTCTTGTGTGG  
TAGTCTGGGTAGTCTGTATTTTACCATATGGGCTACAAGACACACACACACACACAC  
ACACACTCACACACACACACACACACACACACACCCTTGTGAGCATTATTAATTTCGAG  
TTGATGGTGCATAGTTTGGGGAGTGGGTAAAGGATATGTTACTTTTGT

## Sequence 847

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGT  
GTGTTTTAAGTTTANCCTTTGTTTTGTTTTTGGTTGGCAGTAACCCNATTTTAAATGA  
CTAAGCTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTNTATTGATCCCCACCTC  
CAAATATCTCATCAACAACCGACTAATCACCACCCAACAATGACTAATCAAACCTA

## Sequence 848

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTAC  
AGTGCTGAAAATCTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTT  
CAATCTAATTGTTTTCTCAATCTTTGTAACCAAGTTTTAAGAGTCACCAGAAATCTGTAG  
TTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGACCAATATGCTGGACCAATT  
CGGTAAAATACACCATAAATTATGACTGCTTTATCTGAATGCATGGGACACTTGCTACGA  
TGGCGGGAATTATTACCAGGAGTTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACAT  
TGGTGATCAATTCAAATCTCTTTCTTTGCANCCAGGTTTGGTCAGTCTGGCCAGGAGT  
GCAGATTATGACAAAAACAAAGCTAAAAGACCTGAGCCATTAAGGTTACAGTCTCAATA  
CCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATTGGAAT

## Sequence 849

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTGCGCCGAGGTACAAAAGTTCTGAAATAACACTATA  
GGCTTAAGGAATAAGGGACCAGAAGTAGCCTGGTAGCCAGTGTATTTCTGGCTTTATACA  
TTCCTTAGGAAAAAACTTTATAGATGTATTTAAGTAGAATTAAGGTTTACACAAATG  
ATTTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCGTTCTACGGAGATAGGGTCAAC  
ACGCAGATATTTATTTAGCAGCATGGTCTGCAGAAGTAGGAGGAGGTGACCAGATGTGAT  
GGATTATGCCTGTAATTCCAC

## Sequence 850

CCCTTAGCGTGGTCGCGGCCGAGGTNCCACCTAACAAATTGGAGGAAATGAAAAGACGAA  
TCAACAACATTTTGGAGAAAAATTTATTCTACTTCTAGAATTTTATTACTACAAGTGCT  
TAGTTCTTGGTTTGGTANATGAAGTGAAATCAAAATTGGATATTTGGAACATTAAATATG  
GGAGCAGAGAATCTGTGGAATTATTGCTGGANGACTGGCATAAATTTATTGAAGAAAAAG  
AATTCCTAGCTCGACTTGATACTTCTTTTCAAAAATGTGGAGAAATTTATAANAATTTGG  
CTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGT  
ATAGAAAAATATATATAATGTGAAGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGAAAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGACNANGGAAGGGAGAA  
ATTAA

## Sequence 851

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATATTCTATGCAAAATTTATAAAATAATC  
CTTGAACATGAAAATCATCTTAAATACACGAATTAAGTAAGCATGCAATACAGACAC  
TTGCAGGATGCCTGGCCTCTGGGAAGTCTCCTGTCTCTGTGTGAATGTAGAAGTGAGGC  
TCAAACCTCTCTTAGGAAAAATTTTCCCTTCCCACTGCCCATCCATTTCTGCTGACTCAA  
CAATTCACAGAGGAAATGGGAATAGTATCATCAACTAGCAGTCTCCCATGCCAACAG  
ATTTGGGGTCTTATCTAAGTGTCTGTCAGCCCGTCTTCCCTTCTGACTTCCCGTAT  
TGGCTCGTTAAATGATTAGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAA  
GTTTAATCTTCTAAGTGTGTTTTGTGAAAGGAAATATTCCTAAAAGCTTTGGTGTCACT  
TAAAAAAAACAATATATATGATTGAAAGAAATTTGAGATATTTTGTTC

## Sequence 852

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGG  
ATGGGATGTGCTTGTTCATGTCCCCTCCCCTCTGCCTGCTCAACCCTACACAGTCTGT  
CTGGTGACCGTGCCAAAGTCCTTCCCTTGAGAGAGGCCNTTCTCGTGAACATGG  
GCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTTGGAAGGTTCTGCATCAGT  
GTGGCATTGTTGCGATAGCCCTCAGTTGATGCTTGTGTTGTGGTGTGGGAGGCAGGAAT  
ACTTTAGGAGGGTGGAGGGGTGAGAATGAAAAGAGGACTTGCCCTGAGCCACCCAGCTGT  
GGTCACCTGATGGC

## Sequence 853

GGNCGGGCCGAGGTACGCACATACATACACTAACGCTCAGCATAAACTTTCCATTACA  
CTTAGACAATGACTTGTGGAGGAAAAACAAGGATAAACAAGAGTCTCAAGAACTTAAGAA  
AAACATCAGAGTTGATTATTTAGCACTTCTCAGGATTCTAAGGCAATANGCCTAANTTC  
AAAACGTGAAATGTTCTCTATTTCCCATTAGTCATTAAATGAGATAAATGACAAGCTAT  
TGCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAATAAACCAAGTGNGTTCTCTAA  
CAGTTCTAAAAACAGNTTG

## Sequence 854

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATG  
AGCTTAGAGTCAGATTTCTAGGTTTCTAGATCCAAGCATNACTACTTATTTTCTTTAAGAA  
CTTGGGCATCTGTAAACCAGGGATAATATCTTCTTCAAAGGGCTGNTGNGAAGATTCAAC  
AAGGTAATACATAT

## Sequence 855

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACTACCCACCACCATGCCCGGCTCATTT  
TTGATTTTTAGTAGAGACAGGGTTTACCATTGTTGGCCAGGCTAGTCTCAAACCTCCTGA  
CCTCAAGTGTCCACCTGCCTTGGCCTTCCAAAGTGCTGGGATTATAGGTATGAGCCACC  
GCACCCAGCCTTCAATTTTTTTTAAATTCTGATAGAGCACCATCTACTACATGCTTAATA  
TTATCCATAAACAGACATGTCTGAGCACAGAAGATCATGTTAATGAAAGATTATTGAAAG  
GTACCTGCCCGGGCGGCCGCTCGAAAG

## Sequence 856

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAAGCATAATGAATACAACAACCTAGCA  
TCAAACCTCAGTGTATATAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAA

Table 1

CTATTAAGCTCTTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATAGTTA  
CGCTTTACATAAGAGGCCCTATTACCCACTAATTCCTTAAATTTCTACCTACTTAAATTT  
TCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTT  
GCTGGTTCATGCCTGGCCATACAT

Sequence 857

CCCTTGAGCGGCCGCCCGGGCAGGTACCATGAAATAGGACCTTCTACGGTTTAAATAAA  
TGTTTGTTTTTTCTAGCCCTGTAGGTCAATGAATGCCTGACTCCAGTGACAGACCATAA  
TTATCCAAATCTCTCATTTATGAATATGGAATATAAATATGCTAAATTGATTATGTCATG  
AATAGACTTCTTTTTGCATAACAATGTTTGGAGTTTCTCACCTTTCTCCTNNCCTTNTT  
TTTCT

Sequence 858

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAG  
ATTGGATTTATACACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCA  
ACAAACATGGACTTGTTACAACATCCCAGAGTGAAATCTGAATGTGGTCAAGAAAGTTCA  
GAAACAATAAGAGTGATGCAATGCATACCACAACCTCAGGCCCAGTGCAAAAGTCAGGCCC  
CAGCCCTTCCCATATAAGGGACTTGGTCAATTTGAAAAATCAAAACCCAAAAGGAACAAC  
ATAGGGACCTGTAATCAATTAGAATATTC

Sequence 859

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAG  
CTACATCGAAGGACTTCTGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATT  
CAGCTGGCCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGAAAT  
GCGTCTTCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTTGGCTACAGAATTG  
ACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTGGGTAATATCCTTATCTTGTGAT  
CTAGTTAGGGTCAAGTAAA

Sequence 860

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAA  
AAGCTGAGATGCTATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGT  
AAATATAGATGAACAATGAAGCATAAAACAAATTTTAAATATCTTACAGGCTAAAATATTT  
AGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGGTAAAAAGAATCAAGAGCA  
TTCTAAGGTCCTTATATTACCTGGAAGGAGAGTAAAGATAATGACTATCTTCAGGCTGAT  
AAATTAACAATGTATGCTGCCATTTT

Sequence 861

CCCTTTGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTAATT  
ATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTTCAATCTATTTTCTATATCAGAAA  
TGAGCAGGCATTTTAAAAAATGGCTTTCATTGATGGAGAGGTAAAGTGAAATGGCTTTG  
TTGATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCAAGT  
TTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGTGGGGTTTTT  
ATATTTTCAATGTGATTACTCAC

Sequence 862

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCATGCTGGGTCTACCTGAGTGCCAGT  
GGAATATAATTTGGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACA  
ATGCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTTCGGTTCTG  
GTTTCTGTGGTACCTGCCCCGGGCGGCCGCTCGAAAGG

Sequence 863

CCCTTTGAGCGGCCGCCCGGGCAGGTACTACACCTCACCACTGGGTGTCTCTCAGACG  
TTACCAAGAGACAGAGTAAACCCATGCTTCTCCTATCCAAACCAGTCTCTCCTGTTCCC  
TGCTTTGTCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGATAAT  
TTCCCTGAAAAATGTGCCTATTAATAAAAAATAGGATATGATGGGAGGCAGACATAAACA  
TTCTGGTCAATTTATTGGTGTTATTATTTTTCAGTTAATAAACTGCCCTTTTCGCTATG  
CTTCACTTTCCACGTGTTTAGGCAG

Sequence 864

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGCTCTAAATGTAAGGATTCATTTATGAG  
AGAGTGAACATACTGCTTGTAGCTAAACATTACAGGAGACCTTAAAAAGGGGTATAATT  
GGTCCCTATGTGAAATGAACCTGACATATTTTTATAAATTATTTGTGCATGACTATCTTT  
TGNTGATAGCACTAGGAAGACTTNTAACGTTTAAATACTTTATTTGCCCTCAATTACTAT  
TTAAAGTCCTATAATTTTAAAGTAATTTTACAGCTGACAAAGATAAATATTTTTTCTTT



Table 1

TAGTTTTTCTAATGTCTTGGAGGTAAAGTGGAAATGGCCTGTTTTGACACATAATTTCTA  
GAAC TTGGAGTTAATTTTGATCAGTTCCATTTTGGGT

Sequence 865

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTTACTGGGTATTAATGCGTTTCATAGTAG  
GGTATTAATCAGCAAGGTCCCATCCCAGAAAAATGTGCAGTTTGCCAATGGGAAAGA  
TGCANAGACAGTTTCAGTTAATACTAAGTGCTAAAGATTGGGATGTGCACAAGAAGCT  
GGAGGTAAAAATTCTGGAAAACGAACGTGAAGTCACCACTAGGCAAGCTGCCTGTAATT  
GAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAAGGATTAGTTATCTAGTTTC  
CTCCTTTTCTTTTTTGAATTTGGTCTTTTAAGGTCTTGATAATCTTTCTAGTCTAGAGC  
ATGTGAACAGAACANAAGGAAAATCAGGACTCAGTTTACTTAATTTAAAGCAAGCCATTG  
GTTGCTGCAGTTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTCTCTTATTAGCATGGATG  
CTTAAAGAACTTCAGGG

Sequence 866

TAGATATAGGATAGTGATACNTTGAANAGGACTATGAAAAGGGACAGTAGGGCTTAGTGG  
AAAAAGTTTTTAACGANNTCTACNGTTATTGAATNAAANTACATATAGCGNGATTCTTATT  
ACTTGAAATTAGGAGGAGAAAGAATTTTTGAGGTAAATTNGAAAAGACATAAAATAGAC  
TA

Sequence 867

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCCGGGCATGCAGCCAGGCTAGACCGGCTC  
A

GCCCCACTTCAAGACAAAATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAG  
CTGCATCATGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATTAA  
CTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAATATTTTTAAGTGACA  
AATTCCTTGTAAGAAATTTTGAAAATAGAAATATTTGAAGTAGAAAGTTAAATCACCCA  
CAATTCGCTTTTGTTAACATTTGAATATGTGTCTTCCATGATATATAACAAAATTTGT  
CTGGGTATTGCATATGTCGCCCTTTCCTTCTTAATATTGCATTTTGAGCATTTAACCNAA  
CACTAAATATTCTCCCTAGAACATATGGATTTTGAATAATTTAGCTAATTATAAAAAATA  
CTTCCCTAATGGTCTTTGGGCTCTTTAAGGTTTTGCTGGTATATGTTGAGGGGATGAA  
CCACTTAAGGCTCTTTGACCACCATACTGNCCATACTGCCATACTGGCATACTGNTTTT  
AAAAAAAAA

Sequence 868

CCAGTGTGATGGATATCTGCANTTTTCGCCCTTTCGAGCGGTTNTTNGGGCAGNTTNTT  
CNNCCTTTCTGTGNTATTTGTGGCGGNATGTTGNATACTCTCTACCATGGGGATGAAGAC  
ACAAGAATTATGATAGTTCAATTGAAAAAGGTTGAGAATTCAGAACTTGTCAGTTTCCACC  
AATAATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGAATGAAG  
AATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGGTTAT

Sequence 869

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTAATTAAGCATACTAAAGAAAAAGGAATG  
TTTTCTTAGCAATTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGT  
GACAAAAATTAGCCACAAGATGAAATTCAGTTAAATTCCAAACACTGTGGAGATGGAAA  
GCCTTGATTTTATGATGAAAGGATTTATGGCTGGAATTAAGAAATTAAGGAGGAGAAA  
AGTGGGTGAATGGAAACATTTACTTTTTGTTTTAAGTGTTAATAGCCACTTTTTGTCC  
AGTCTGNATCTCCTTTCATTAGTCTTTATATATATATACNCACACACCCCNACGTAT  
GTTATATATACATATAATGGTTTATGTATTATATATGNGGATATATACACCTTATATGGT  
TATATATATGGGTTTTTTTCNNGAGCNTTATATCATGGTGAAATGAGTTCAAATGGACCC  
TGGCCCGGGCNGGCCGNTCGAAAAGGGCNAATTCACCACTGCGCCGGCGNTTACTA  
GTNGGATCCCCAGCCTCGGGNNCCAANNCTGGGCGTAANCAATNGGGNAATAGGTGTTTNC  
CTGGGNGGAAAATTGGTNTNCGGTTAAAAATTCNCCCCAACATTTCCANNCCGGGAAGCC  
CTTAAAGGGGGTAAAGCCCCCTNGGGGGGGGCCCTTANTTGGGNGNGGGGNGCCCTTT  
AACCTNCNCCNNNTTTTAAAAATTTTGCCNNNTTTTGCCCGCCCTTTNANAAAAT  
TTGGGGCCCCCCCCNCCNTTTTT

Sequence 870

CCCTTGCCCCGCCCGGGCAGGTACTAATATTCTTCAACAGAATGCAATAAAATACGAGCT  
ACATAAATCCAACTTGTTCAAAGGTAGCTATGTTTTTTAAAAAGGTTATTATAACA  
GACAAAGCAAATGCAAATTCCTTCCAAACCCTGATAATTGGTAATACCAAATAACTG  
GTATCTAATAAATATACAAATCAAGAGAATACCTTGCTAGCTAAATTAAGAAAAA



Table 1

AAAACT

Sequence 871

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGGCTTCTTTGGTGATAGTTTCTACTCTCTT  
TAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATTGACACAATAAATCTCTTTGA  
TATTTATACCTTATGCCTACTTTTAACCTTTTAGGAAAACCTTTATGAATTGGAATATTCTA  
AAATCCTGAAATAATTTGGAATATTCTAAAAATCTGAAGAGAATATGAACGGATTGTTGG  
AATGGAACCTTTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG  
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCATATTTAAGTT  
TCTGGTTATTTCATGGNTGCACTCACTTTAGAGGATGTGTTCTATTAGGGTTGCTGCTAC  
TATTTGTCTCTCCTAAATAACCAGTATGGAATTATAGAAAGAAAGGTGGGGAGAATAGTC  
CGTGTGATCTNCTGGGCAGCATTAAAGCCTGTTCCATCCAGCCCCTGACTATTTTGGTCT  
TTCTTTGCCTTTGAAGGCCCAAGACATTTNCATTCCTTCGAAGNTTTTATGGTCTATA  
CCCCCTCTTTGCCTNCATATTNTTTTGCAAGNGGGGGGCCAGAAATTTTTTGGATTCCCN  
TAAAAATGGACCTTGGGGTNTTTTANCCATAANCCTGTGAAAATCCAANGGGGGGGGGG  
CCCCTTNTNCCCCCCCCGGGGGCCCGGGGGGNCCCCNCNTTTTTTTTGNAAAAAAANN  
GGGGGGGNCCCCCAAAAAA

Sequence 872

CCCTTTGAGNNGCCGCCCGGGCAGGTACAGTTCTGTGTTTTTCAATTGATACATACTAC  
TTATGTAAGAAAAATGAGTAAAAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGC  
ACAGAGAAGGAAAAACTTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATCTAC  
AGGAACAGAAACATGATGGAAGAACAAGGGTTAGTTACTGCAACGAAAAACATGGCAGG  
AAAAAAACCATTTTGAAGCCAAGCTTTTGAATTAACCATGAATGAAAACAAATGGGAAA  
ACAACAACNACNAAAAACAAAACAAAAACAAAAAACAAGAATGACCAAATACAGAAATTAT  
TA

Sequence 873

CCCTTAGCGTGGTCGCGNTCGAGGTACTTGTTAAAAATTCAGATTCCTGGACCCACCCTAG  
ACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACATCTTCATTATAACAAGCTTCC  
ACATAGATTATTTTGTCACTGGCCATGTCTTGCTTTGCTTCTGTGGAACTACTCTCCAT  
CTTCTGGAGTGGAATGTCCCCATTGCTATCCACATGGTCTCGCCTCCCTGATACTGTA  
GTCTCAGATGGCACCTNCTGAACTGGGCCCGAGCTCAATCACTTTCCAGACCCTGCCCA  
CCTCGCTNGGAGCNTCAGTGGTCCCATGGTGGGCAAAGGAACCCAGGTTTNG

Sequence 874

GATATCTGCAGAATTCGCCCTTTNCGTGGTCGCNTTTGAGGTACTGAGGATGACTAGAT  
GACAAATAATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTTTAA  
AGAGGTTAGTCTATTCTCTTATTTGAGAGCATATGGAACTATCTAGGCCTAAAGACTGTA  
AATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACA  
ACCAACAGTTTAATTTAAGAAACATTTGACAAGCATCTCCTGTGGATAAGACCCTATGCA  
AGATGTCATGAATATAAATATGCACAGTAGTACCTGCCCGGGCGGNCCGCTCGAAAGGG

Sequence 875

CCCTTANCGTGGTCGNNTTTNGAGGTACTTTAAAAATAACAGAGTGTGATTTAAGAATAC  
TCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGTGAAGTCAGGACTTAGATAG  
AAAGATTACAAAGAAAGTCAAAGTAAGCAGAGGAAAAAGATACCAAATGACAGCTTCAG  
AATAAGCAGTAAGGGAATAAAGAAAAACAAAGTTGTGTGTGTGTGCATGTATTACATGATA  
AATCCATGGAAAAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTTT  
TGTGTCCAAAACCTAATTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTCCTTCC  
CACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAATTAAGAGTAGAGAAGGGCA  
CAGGGCC

Sequence 876

CCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGTTGAGGTACT  
TGNTAAATTCAGATTCCTGGACCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACA  
TGGCCTGGACATCTTCATTATAACAAGCTTCCACATAGATTATTTTGTCACTGGCCATGT  
CTTGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCCCCATTGCT  
ATCCACATGGTCTCGCCTCCCTGATACTGTAGTCTCAGATGGCACCTCCTGAACTGGGC  
CGAGCTCAATCACTTTCCAGACCCTGCCACCTCGCTGGAGCTCAANGGGTCCCATGGT  
GGGCAAAGGAGCCAAGTTTGGGCAACAAATCCCTATGCATTTAGAAGTAGATGGGGCTGC  
ATTACAACACACAAGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATC

Table 1

ACAGCAAGAGGGCAGATGAAGCNGACTCAAGAGAAACAGATNAGACCAGAGAGACCCTGG  
TTCTTGGTTTGTCTGAAGNCATGGNCCATCTNCTATTCTAGAATTANAGAGTTCCTGGA  
AAATTCTTACCANAAAAAATTTCTTTTGNTTNGACGCTTAATTGAGGNTAATTTCTAT  
TNTGGGCAATNTCAAAGNNATTCAANGAAAAAAGGG

Sequence 877

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTAATTTTTTTTTTTTTTAATA  
GAGATGGGGTCTTACTATGTTTCCAGGCTGGCTCGAACTCCTGAGCTCAAGTGATCCTC  
TCACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCANACCACTGTGCCCTTACTTCTA  
TTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAGAGAAATTAAGTAGTAACTT  
GTCCAAGTTTACCCACAACCACTAAGTGGTAAAGCTGGGGTTTGAACCTCAGCAATGTGC  
TTAAATCTCAGTAACTGAAATCACTATGGAGGACCTTTAGGT

Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATTCCTTAAATATTTATGC  
TCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTTCTCTTTACGCCTAAT  
TTCTTAACTCCCAGAGTTTTTTCTGTA .GATCTAGTCATCTGTAGCACTTCTCACAAA  
TTAAGCTCTCTTATGCCCCAAACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAG  
TGAAAGATATTTCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTA  
GGCTGAGAAATGATTCTCACTTAAAGCCCCTGGGTTTAAACCTCTCTTAGAAAAACAT  
TAGT

Sequence 879

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCA  
GGGTTTACAGGATGAGGGCACTTTGCCATTCTTTGTGATTTGGTCAACAAATGACACAG  
GTTATTTACAATCTTGACCTTTTGGAAAAGATACAGCAGGTAATAGCCTACAGGAAAGAG  
GAGGTAGAAAACAAGTGCCACAGTAGA

Sequence 880

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA  
TGAAAAATCCTGACATGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAA  
TGAGCCCATCTAAAAAGGCAAATACTGTATGATTTCACTTAACTGTGATATCCAGAGTAA  
ACAAATTCATAAAAACAGAAAGTANAATAGAGGTTTCCAGGGACTGGGAGTTACTTGATA  
TAGAGTTTCAATTTTGAAGATAAAAAAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACTTAACACTACTGAACTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTTAGGT  
GTTTCTTACCACAATTTAAAAAAGAAATTTTAATTAAGGAATTAATAATTTACAAAAT  
ACTATTCATCATTGNGTTTCCAGTTTATATTCAACCACAGCAGTATTTAGGTATAGTAA  
TTAACTTACTTTCA

Sequence 881

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCACTGCACTCCCACCTGGGTGACAGATCAAG  
ACCCTGCCTAAAGAAAAATTTAAAAAATAAAAAATTTAAGAAATTTCTATGCCCTTTA  
CCAGGCCAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAATTTAA  
AACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTTATTCTTTCTGCTTGTTTCAAT  
CTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACACGATTTTGGTTTGGTTATCTGAAGT  
TTAATTGCATTCAATTGTGTTTATAGTATTTATCCCTGTAGTGTTGGAATTACCACTCACT  
TACATTCATATTTNAGTTTTTGCCT

Sequence 882

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTCTTGAATATTTCCAGGGCACAAGATA  
TTCTTATACAGAAACCTCAGAATGGAAAATAGCTAAGACATAAGCAGTGTTTCACAGAAC  
CATCCATCAGTCTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCATTAT  
TCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTACCATTACTAAGACA  
GGGTGATAGTAAGCATAGAATTTGGGATGTCTTTTTTCTTGGCCCTAAACCTTCAGA  
GTTCTGCCAGGTGATTCAAATGTTTAAGATCCATAATCTCGCCTGTGTGCTCAAGCGAA  
CACTAACACTTTAAAAAGTGGGAATGAAAAATCTGAACTGGTTGAATTAGACACAGTAT  
TTGGCCCATCTTTCAATTTAG

Sequence 883

CCCTTAGCGGCCCGCCCGGGCAGGTACTCAAAAATTTAAATAGCCATCTAAAAACATCTCA  
GGTAAAAATCTGTCCCCTGCATTTGAAACCAAAATTTTCTCACTAAAAACATT  
TTATTTAATAGTGAGGTGAAATTACATTAGCCCTCTTACATTTATTTGATTCAAACCTT  
TTTTAAAAAATCTAGATTC.TTTTAAAAAATAAATTAAGAAAAATGACATCATTCATCA

Table 1

GATAGCCAGCTACATGTGTAGTTTGATCATTGATTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACCTCGGCCCGCACCACGCTAAGGG

Sequence 884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTA  
GAGAGCATANGAGCTATACTAAGATATAGAGTCCTGCACAAATCCACAAAATAACATGAA  
TACAAAGTGTCTAAAGTCATGCCAAATAAACAGANCATATAACTGGGCAGAGGGGATG  
GAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTCTTATGGGATATGAACCTTGAGA  
TGTTGAAGTAGAACTGAGACATTTCTGGAAAACATANATGTATNAACAGAAGCANGAGGAA  
TAGGAGATGGTTTGAAAACATCAAGCAGCTCAGTTTCTTGGGGTGGTCCAGGAGAAAGA  
AGCTCAAACAACATTCAGTGATAACACTTAAAANNATCAAAAATTT

Sequence 885

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAACAAGACAGTGCCTGCTTGTGACCAGGG  
GCTGGGCCTCTTCATAGCTCTTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTA  
CACATTGACTTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTTAATTGGTTTGT  
TTACTTCAAAGTCCCACTCATCAGAGGCAGNTGTTTCGCTTATATTTGGCTCACTACTT  
TNTCTGCTTGGTTTAGTAACACTAATGTTTACTAACATTAATAATGAAACCAGTTTTCGAG  
CTAGCATCTATTGACCAATATAATTATTTTCAAACGTATATTCCAAAATTTAAAC  
ATATTCAATGCTTATTGAACATCTAAACATATANCCTTAATGAATAANGGGAAAATATAA  
CCATCTGGTTTTTGGATCTGAAAGCCACAACCCACCTGCTAGANTANTTTGGGGAAAGGC  
TTTTTANTTCCAAGTTCAAAGGNTGAATTCCTCCCGAGGGNNGNNGGGGNNCTTCCCTTCT  
NAACCAGCAANAAAACCTNGCNCAGTTTGGGATTTTGGGNGGAAAAATAAACCCNAATGA  
NGCATTTTACTTTCTTTTTT

Sequence 886

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGCTCGGCAAAGGGGGACTGGATTAATAA  
ATTCTGGTAATATAGTAAGGACAAAATAATGTAAAAAGATAGAAGTAAATGGAGAACA  
TCAACATGAACGCGTGCTCCTTTGAGTAGAAAAGTAATTTTTCTGCTTTGTCACTCAAATA  
GCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTCTAAACCTTTCTGGGCCTC  
AGATTTGGATGCTAATATGATTTTCCACTTAGTGGATAAGAGCTCCCTGGAGAAGGGCTC  
ATTCTTGGATGGACAACAGAATTAGAGCCTGAGTTCTAAGAGCTTAATAAAACAAAAG

Sequence 887

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCGATGAAAGTTTAAATCTAATCAACAGTATT  
ATGCACTGGTTGAAGAAAACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAANAA  
GGGAAAAGTCCGNTAACTATATGTGTTTCATNAGATTCTAAAGCTGTTAAGGGAGAAAGAC  
CCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATGNTCTGTTATAGAAAAG  
TGGGCTTTTAANTTTTGTAAG

Sequence 888

CCCTTAGCGTGGTCGCGGCCCGAGGTACCATTAAACCGTCTTTTAAAAAATTATTATTAGT  
TTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCAGGTTTGTCTTCTNAAT

Sequence 889

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACAGGCCAGATATATTCTCTCATTAACCTA  
TTGCCTAGCAGAGAAGACCAACATTTTTAAAGTTTATACATATAGTTAATTTCTATTAT  
GATTATATGATACAAATGGAAAGTGCTATGAAATGTGGAACAAAAGAGAATAATCTGTC  
TGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTAAAGGTTGAACAAGGAATT  
GGAAAACAGCTGGCATGTGCAAAAGACTTGAANACTGAAGGAGTTAGCCTTTAAAAAAAT  
GAAGAAAGTTCTATTTGGCCAGAGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAA  
GACCTGAGGCCCTTTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAACTTGANAAGT  
GACAAAGATCAGATTTGCAATTGCCTTTCAAGGTGGTAGGTTACAAGGGAGTTGGGTCTC  
TTGACCCTTTGCAATTATACCCCATTTCTTAACCTAAGAAATGGG

Sequence 890

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTGCCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCACTCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGGCC  
ATTGGGTGATAAATGTCCAAGGACCTTAGGCTGACGACACATTTTTTCATCATTAAATCCA  
GTCTATTGTAACCAGGGCCACTCACATTGCTGGACTAGGGGGCATCATCTGCTGTTAA  
AGAGGGTGATGACTCGCTAAAAATGAGGG

Table 1

## Sequence 891

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCATGGCTAAGCATGTGCGGGATGGAA  
CCGGTCTTCCTGGGCTTACATCTTTGCTTTGCCTCTTCTTTCCTGTGATGAGTCTTGGGG  
TAGGCCTCAAAGGCTGAATCTTCAATATAAATAACAACAGTGAATGAACAACAATGGTTA  
TTTTAAAGATCTATCTTGGATGGCTATTTAATTTCACTAAACCCAGGTTGCTCACCTGT  
TGACTGGAACAAACAATAGTCCCTTCTTCATGCGGGCATGGTGAGGGTTTTAAACCCCGCA  
TTGTCCACAAAGACCGCTTAAATTATAGTAGATGCTCAGCAAATCTGAGCTATTATTTT  
ATCAGACTGTCAGAGGTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTTCAAATCCC  
AGCAGGGCCACTTACTGTTGGAGCCGGGGCAAAGTCAGTTATTCTCCCTGAGGGTCAGTT  
TTCTCATCCCTAAAAATTCC

## Sequence 892

CCCTTCGAGCGGCCGCCCGGGCAGGTACTACAGAACAGGAACAATCTGCCATGTGTGTTT  
ACAACCTTCAGAAAGCCCTGGAATGACAGTTGCCAGGGCAGTTCTTTGAATTTGCAGGTCA  
GAATTAGTGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTACAAGA  
TGTTGGAACAGGTATATTTATTTATTTAATGATGATCAATGATTCTTCCAACATCAGGGA  
ACATCAGGGAAATCAGCTAGTATATGCTCTTTTTGAGGATTTTCAGCTCCAAATCCTGAA  
AGCATTTCATGAACTACATAAATTACTTTTGTTAAGCAAATCATCATAAGTAAATCCAGT  
CATATGAATCTGGAAGGATTTGCTGGTGGGCACTAACACTGACCACATGTTTCAAGTGTG  
GGCAAGTTTACCATCCATCACGGATTTTGCTGCTTGGTGAATTGTAGGGAGTGAAGAGAG  
AAGGATGTTTGGCCAGTTGTCTTTTTACCTATATCTGAAATTCCTACTAGTCAAAGA  
ACAAAACATTTAGACATTTTCATTTCTTTTGGGGTTTTAAGTGATACATGTTTAAAAAT  
TGTATATTTTAGAAGAAAATTGTTTTTATTATATATAATTTATTAAATTCNGGNGGAGA  
AGACCAAATTTTATCCTGAGNAAAAATTTAAATTTGAAGNTTAGGTTGGCTTTTTTAAN  
ACCCNCCGGCCNAACCCCAAC

## Sequence 893

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAGCATTAAAAAGTCCTACAAATTATTAGA  
GAGAAAATACAGGTTGCACGCAAAGCATAAAGAATGAGAATGGCATAAGACATCTTAACA  
GTGCCACAGAACTAAAAAGTAGTTCTGAGTAAAAATGAACTATTTACCCAGCCAAACCG  
TTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGATATTAAGATTACT  
GAGTCAATTGATATTCAACAGGGGTGCAAATGGAGAAAAAGTCTTTTCAACAAATAGTG  
TGGGACAAATGGATAGCCACATGCAAAAGAACATATATATAAGAGCTAAAACCATAATGC  
TTTTAGAAGAAAATATAGGGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGA  
CATGACACCAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATG

## Sequence 894

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTACACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAGGGAGTGTCCGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAAATGGGATTTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 895

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTACACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAGGGAGTGTCCGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAAATGGGATTTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 896

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGAGCTGCCTCAGCACTCTTTTGCCATTGCTG  
CTAGAAACAGCCAAAGCCAGACAACCAATTACAGATGCTTAAATGTTAATGCCAGACAC  
CAAGGCTCCGTGAACCTTCCCTGTTGAACATCTGACCCCGACTACTTGAGGACATGAAACC  
TAAGTGTGACGCTAATTACACCTTCCAAGGGCAATGACATCGGGTCCTATGATTTTATTC  
AGGAAAGCAATAAGGCAATCGGGGTCACTGTGAACATCATTTGAAGGGAAGTAACTTCTT  
AGCTTTATTCCACAAATGGTCTAT

## Sequence 897

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAAC

Table 1

AGATCTACATTACTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAACTGA  
ACGATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTGAATGACAAAACGGA  
GAGATAACTTACAAGTGGTGATATCTGAAGTTAAATTTTCTTGGTTATCTATTTCAAAA  
ATTCACAACATTCTGCACTAAATGTTTCACTGGGTCAGGCACAGTGGCTCATGCCTGT  
AATCCCAACACGTTGGCAACCTGAGGCAAGAGG

Sequence 898

CCCCTTCGAGCGGCCGCGCCGGGCAGGGTACCNCGGGGTNGGACTCTNTGGTTTTTNA  
ACCTTATGAACCATTAACTTGGGAACCCCGGCAAAANTAAGCCTNNGGGGGCTTGAGGGG  
ACTTTTANGANNNAACCNNTTAAACATTTGGTNTNNTTNAAAAAAAAAATTNCAGGGTTT  
CCGTNCCCTTTTCCAAAGGGGGGAAAAANGCNCNAACNTTTTTTTTTTTTTTTTTTC

Sequence 899

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTGACAGATGCCTGGGTAACCATGTCCAATGT  
TCAATTTACTTTCTGCTGGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGCTTCGGGTG  
TCCGCTGGTAAGAAATCCGCCACACAAGAACGACTGACATTTGGAGCCTCATCAGGGTC  
AGAGTTGAAAGTGAAATAAAGGATAATAATCTTTGTCTTATTTTCTTTGTTTTAATGTTT  
CCCAACTTACGTTAGGACAATGTCAACAAAGACAGATGTCCCTAATAGTAATTGCAGGAC  
ATGTGTTTTCTCATTCTATC

Sequence 900

CCCTTTGAGCGGCCGCGCCGGGCAGGTACATTGGAGGGGGCCATATCCAGGACCTGTGATG  
TGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGATATCAAGTGGGGGACATGTG  
TTTGCCCTGGGGCTCTATTGGCCTGGAATTTTGTGGTAGGAGGAAGGCACAAAAGTAGA  
CTGGGATTACAGGCGTGTGCCACCGCGCCCGGCCTAAAGTGTGTTTTATAATAAACCTC  
AATCTGAAACATTTTAATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGATTAT  
GTTTATATGAATAAAAAAGAAAAAGACGAG

Sequence 901

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTCCATTACCTGGGAATAGCTGCTTTGGACGGCAAC  
CAAGCAATGCCCTTTACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGTAAGGAAGCA  
ATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTT  
CAGGAACCTTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTTAATGATGTTTT  
ATTGAATTTTGG

Sequence 902

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATACAAGGCAAAATGAACTCTAAGTAAAA  
AAGAAAACACACTTCTAAACACAAATTAACCATTTTCACTATTTAATTGCTCCTAAAGG  
TGTATTTCTACTTCATTAAATGTAAGAGAAAAGGTTACCTACATTACGCAGTTTAAGAAAC  
AGGATAAACTTTAGCATATAAACCAGTCTTGATTACAATTTACACTTTCAACCATCTTA  
TTTATACCTCTACATTAGATAATCTTTAAATTTCCATCATAAGGTTTTCCCATGGTTAAC  
CTNCCATATAAAATTTTGGTAATCCTGCC

Sequence 903

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGT  
CTGGGTGGTCTCAGGCATGGTATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAAA  
CTAGCTGAATAAACTCATCCACTCCGATTTTCAATTTAGGTATCTCATGAGAACTAGAGG  
ACAAAAACAATTCAAAATTAACAAAACAAAGTTTACTCTAGCCATCAGTGCCAATGAAC  
ATAAATGACTGCCTGAGAGTTATATTAACAAAATAATTAATTGAGACGAATTAAGGAATT  
AAACCAGCTATGGGAAATATACACTCTATACTTAGATGCACATT

Sequence 904

CCCTTTTCGAGCGGCCGCGCCGGGCAGGNACTTAAATAAAATAAAATTAACCAAAATCATTT  
TAGAGATAAAGAGTGAAGTTACTAGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGG  
TTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAATTTG  
TAATTCAGAATGGCTTTTATGTATCTAAAACAATCTGGGCTGCTATAAAATTCAGTCAA  
CTTCTAAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTACCGTG  
CAGGACCAGAGGGCTCATCTC

Sequence 905

CCCTTTTCGAGCGGCCGCGCCGGGCAGGTACTTAAATAAAATAAAATTAACCAAAATCATTT  
TTAGAGATAAAGAGTGAAGTTACTGAAAAAAGGTGACTAGGGACTCTGTTTATGAAGAAA  
GGTTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAT

Table 1

TGTAATTCAGAATGGCTTTTTATGTATCTAAACAATCTGGGGCTGCTATAAAAAATTCAG  
TCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTAC  
CGTGCAGGACCAGAGGGCTCATCTCTTGCCGAGCTTAATACAGTTT

Sequence 906

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGA  
CTGATATCAGAGACTTTCTTGGAAGTAGGTTTCATAGGATGGAGGACAAATGAACTTTA  
TGGGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCAAAAGCAAA  
CTAGGTCAACTTTTTAACTGGCTAGTGAAAATGAGATTCCTCAGGATACAAAAGCAAGGA  
GAAGACAGGAATAAATCAGGACTCCAACAGGCAGAACAGGATTTATTTAGGGCATGCAAT  
GTGGAGGGCCCTAATGGGAACATGACAGTGT

Sequence 907

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCA  
CTAAAGCCTCCAAACCTTGCTTGTTTTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCT  
GTTGAAGTTCTTTTGAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCTTCGGGATA  
ATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTGGGACTCTCTTCTTGTTTT  
TGGTTTTTAGGAAAAAGCTAGAAAACTCAACTTCAGCTAGAGTAACAGTAGTAAGTACG  
TTGAAAGTATGTCAAAAACAAAACGTGTAA

Sequence 908

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACC  
AAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGAAGGAAGCAA  
TTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTTTGTTGCGTAATATTTT  
AGGAACCTTGCAACCCTGATAACTTGTCCTGCCTGTCTGTAGGCCTTAATGATGTTTTA  
TTGAATTTTGGT

Sequence 909

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCTCTTCTCAATTTTGCTATGAACTTAAACCT  
GCTCTTAAAAAATATTTTTTTTAAAAAAGGAGGNGTTATTATCAGAGATCCCATAGAC  
CTTAAAGGATAATGAAAGAATGCTATGGGATAACCTTCATGCTAAAACTTCAACAACCT  
AGAAGTATGAAATGAATGAACNTCTCCAAAAAATACAAGTTACCAAAATTGACATGA  
ATAATAACAGAAAATNTNGANTAACGCTCTAACTATTAAAGGAACGTGAAGTTTGTCAA  
AGCTTCCCCAAAATAAAATTCCAGGACCAGATGG

Sequence 910

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAATGGGGTAGGGTGTCTTGGGATCTGACT  
GTTTCTTAGACCTTCAATGCTTCTTGGCTTTCCTCACTGCTAGTTATAATTAGTTTTCT  
CAGGTCTAAGTCATTCACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTGCTA  
TTATCTCCTCTCCTGTTTTCCCTATTGGTGTGTTTGTNTCTTTTTCTTAAAAAATTC  
TTTGTGG

Sequence 911

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAA  
AAAGGTGTATATTAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAATT  
GTCTATGTAATTTTCTTATGGTGAACCTACCCAAAGCAAGGCCTCACCTTAGGCTACCAGC  
TTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTTTGTGAGAAACCTCATGAG  
CACTGAGTGTCTAGTTCCAGATGAAAACCGGTTTCAGGTATGAAGCAAGAGGGAGTGCT  
AATTGGTAGAAGTAATTACATCTT

Sequence 912

CCCTTAGCGGCCGCCCGGGCAGGTACAACAGAGCACAAATGCTTAGATTTGGGTGGATTTG  
AATAAGATGAAAGATAAATTATGATTTTGTCAAGTGTTAAAATAAACTAAGACACTTA  
AGGACCACAAAAATTTAGACCAAAGTATCTTGTAATTCTACCTGGTGAAAGTTTGATAT  
AGCACACATATGACTTTTCTATATTATTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGT  
TTGTATTTTCTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTTACTATGAAACA  
TTTTTTTTTTTTCTTAACAGTTATCTT

Sequence 913

CCCTTTCGAGCGGCCGCCCTGGGCAGGTACCACAAAGTTATTGCCTACATCCAGGTCAAGA  
AGATCTTCTACTGTATTTTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAA  
ATTAAGAGTTGTGCAATCATTAACTCTAGCTTTAGACTGGTATACTAATTGGTTTGTATA  
CGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCACAGCAGGGCTCTG



Table 1

TAATTAGGCAATAATTACTTACCATCATACCTAGTGAGGCAATATGGGAGAAACAAAACA  
GGCCATACAGCTTCACTATTATTCCTACT

Sequence 914

NNCACCCCTAGCGTGGNCGCGGCCGAGGTACTTGAGGACCAAGCCACAGAGCAAGCGCTA  
AAAAAAAAGTTAACTAGAACCTTACCCTNTTNCACGCACCCCAATTNCATAAAATGTAT  
CAGNAAAAAAAAACAATNATCTAAAGANAAAAAGNAAAGAAAAANNATNNANCACATAG  
GNAACNGGGTGTCAACTAGGNAACNGACCTATANNAANNAGGAAGANAGNGNCTNCCTT  
CCTCAATNNNCAGANNACGGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCNCTACAAGGA  
GAAAG

Sequence 915

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAATGGTAAATATATGAGTAAATATAACAC  
ACTTTTTCTTTTAAAATTTTATTTAAAAGGTAACACTTTGCAGCAAAATAATTAACAAT  
GTATTGTGGGTATATAGTAGTAAGATGTTTGACATAAATTACATAAATAATTGGAGCAG  
GAAATAGAAGTGTGTTGTTGAAATGGTTGATATTATATATGAAGTGGTATATTATTAT  
TTCAAGGTAGCCTTGATAAGTTAAAGGTTACATATTGNAAACCCTACAATAATCATTACA  
AAATAAAGAGATATAACAGNAAG

Sequence 916

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCAT  
TCCTTTGGTCTATAATTCACTAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGG  
CCCCTTAAGCGACCCAGGGTAGCTTGTTGATGGTTCAGATTATGATTTGTTCTAGAGCTTT  
TCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGNCCCCCTNCCCTTTAAACAAACAAA  
GTGCCGGCTGGACGCANTGGCTCATGCTGGTAATCCANCNTNTGAGAGGCTNAGGCAG  
GCGG

Sequence 917

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTGCCTGGCATGCATCTTCTCGATGGTCTGTT  
ATCTTGTGGGAATGACATTCGTTAAGTTGTTTTCTGTGTGCATCCACCCAAATAAAGAA  
TGTTTCATCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATCAAC  
GATGACTGCAGTGGGTGAGGCTGTTTGTTCATCACATCACTTGAGAACAGAGTAAAGTGA  
GTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAGACATCTGTTTCAGAAGCTTTCTAA  
GCCATGGAGTATTCTAAATGAGC

Sequence 918

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAATTATAAAGTTACCAATAACTTTACATTA  
AGAAAATCATTTTCTTCCCCTTGAAAACAAAGTATGTCCTCACTTTCCCTGCTCTTTTAT  
TCATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATACTGAAACAG  
TGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTTGGGAACAGCTTTCAGCAGT  
GGTCACTTGTCTTTTTTAATGCATTTCAAATGTGTTTGGTTAGCAAAAAATAATGAGA  
TAATTCCTCAAATAAATG

Sequence 919

CCCTTAGCGTGGTCGCGGCCGAGGTACAACAATTTATCCATTCCCTTAGCAATAGTTGGA  
CACTTAGAATGTAAAAGTGTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAAGG  
GCCGTTGGAAGAGGAGGAAAAAGAGGGTGAGATGATACATTAATATAAATTACTGAAAGGT  
GGTGTTACATTTAGAATTTTTTTTTTAAGTTGCATGTTTAGGATTTTAGTGCTCAGGAG  
GAAAGAAGGCCAGTGTGCCCTTCCAGACCATCGCTGCCATTTCCCTGTAATATATCGTG  
TGTAAGGAACCTAATGCCTGCA

Sequence 920

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGCTATTTCTAGTTCAAAATCACAGATTTTCA  
GATTGAAAAAATTTCAATCCACTTATTTTCAAATGAGATAACTGGGACAAAGAGAAATT  
CCATGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAAACCACAATCC  
ACATCTCCTGACTCCCAATCCTTTCACTTAAAACAAACAAGCAAACAAACAAAAAAGATT  
TCTAATAAAGTGGAATAATTNTAAGAAAGGCAAGTATCACTATTTTAC

Sequence 921

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACATGTAACTTCTACTTTCCCCTTCAGATT  
ACAGCAACCATCATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCACTGATG  
ACCACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTCTCAAACCTCTCAACATTTGT  
GTGCTCATCTCCCCTTACCCAGAGACTCCCAGGGCTGCTGGGCCACACTTTGGTTTGT  
TTGACTGGAACATAGTTTGAAAGGGATGGAATTTCCAAAAGGTGTTAATAGACACATAA

Table 1

AGATTTTTAAATATTAAAAAAGAAAAAGAAAGA

Sequence 922

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTG  
TCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAGCTGAAGCCATTCAAA  
CACATAATGAGAATTGGAGATGTAAAAGAAGGCTGAGTTCTAGGAGTTGCAACAACCTAG  
GAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCCGAGGACTAGAA  
GAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATGCC  
ACTGAAAACCTGATGAAAGAGGAGGGAGACAGGAGG

Sequence 923

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCAC  
CTCAATTCTACTCTGGGGACATTCTCTCTCTTTTGGTCTGGAATGTCCCCTGGCTT  
CAGGGACAGCTCAACATGGGCCTGGACAGTCAAATTCCATCCCCAAGCTTGGGACTCAGG  
GAGACCATCCAGTGACTTGTTCTGAAGTGCTGGGAAGGCAGAGCNTCTTTCTGCGGGG  
TGCTGAGTGATGGGACGACAGNGTGGAGCTACTGNGCTCTCCAAGCCGNGCCCAGGACC  
AGCCTGCCTGAGAACGAAGCCAGC

Sequence 924

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTGCCCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCCACCTCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGCC  
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTTCATCATTAAATCCA  
GCCTATTGTAACCAGGGCCACTCACATTGAT

Sequence 925

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGTA  
GTTTCGTCAGATCCTAGGAAGTGTCCTGACGGAGAAGTTTACAAAATGAACTTCGAAC  
TGAAGTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCCAGAAAAAG  
ACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAANTGGTAATAGTAATCA  
CTATCATCATCATGTGACATCCANAAAGCCACAAACAGAGCGGTCCTTACCAGTGACTTG  
TCCATTGGTTCCAATTCCTAGC

Sequence 926

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAACACAAGATTGCTAATAGACTGCTAATAA  
TAGAACTTAATAAATGAAATAATTTATTTCAATTTATTGTTGCTTGAATACAGAAAGTGC  
TTAGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCACCTTCTGAAA  
AGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTTTGGGGCTGTTACAGTTAT  
TTCCTTTATTTGAAGAAGGAATATGATATACCTACTTTGTTCCAAGTCACTGCTTATAAT  
GTGCTAATGGTACCT

Sequence 927

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTC  
ATGCCTTGATCCCCAGAAGTGTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATG  
TCATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCAC  
TTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTC  
CAAATATGCAAATGGAATTGAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTT  
TGAGTCGGTTCAAGTCAACCAATTTCGAA

Sequence 928

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAAAGAAAACAAATACCAAGTATTTACAGAT  
CCAGAGAAAGTTTACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAAT  
AGCCACATTGCAAAACAAACAAAAAAGCAGAACGTTCCCGAGTGTGCCTCCAAAACA  
TAAAGGAGAAAATCATACAGAAAAACCTCATGTAAGGGTTGGAAGTTGAGCAACCAGCTA  
TCCAAATACAGAGGGGAATCCTCGCTTAGCTAGGGCATGGCCTGAGAGAAGCCCCCTTCTT  
GCTTTCAGAGCCTACAAGTAGTCCCCA

Sequence 929

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTAT  
TTTATTGCATTTCTAATGAGTTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATAT  
GTTCTGTGTGAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAAATAAGAATAA  
GAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCATAAATGTATAGTGCTTAA  
GCTCTGCTTTAAAGGTCTTCCATGTGCTCTTGGGTAACCACTTAGGGCTGAATTCATA



Table 1

GTATAAATATCAATAAATGTTGCAATCACAA

Sequence 930

CCCTTAGCGTGGTCNCGGCCGAGGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTC  
TGAAATCTGGGCCCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTC  
TCACNNGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCAGGGATAG  
TGGCTTGGGCCCCTTCNTCTGGCTTTTCTCCCCACNCTTTGCTCCACTTCTAACATTTTTC  
TNCCTTCATCTNACATGAAAGGGACAANGGGTTAACCCCAAGNAGGGAGGGGCAGAAAACA  
ANGNNCCCCACATCCTGGCTNTGCCTTCTGAC

Sequence 931

CCCTTTGAGCGGGCCGCCGGGCAGGTACGCAGGGATTTANAGACAGGGTCTGGCTCTTT  
TGCCCAGGCTGGAGTGCAGTGGAAACAATCATGGCTCACTGCAGCCTCACCCTCCTGGGGCT  
CAAGAGATCCTNCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCACG  
CCTGGCTAATTTAAAAATTTTTTTATAGANACAAGGTCTCACTATGTTGCCACACTGG  
TAAAGTATTTTAAATTTGAGACATGAATAATGATGCAAATCATCCTTTNTATGGGTCTG  
ATTCTGTTCTGTTACCTTATTCAAGGACTAA

Sequence 932

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGNAT  
TTTTAGTAAACACGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCT  
GATCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGTATNTGGCC  
ANANAAATTTTTAATATAAATTTTTTTCAGTTACCACTTAAAGGGAAATATGATTAATAA  
AACTAAATAAAGAAGAGCTTTAGTAAAACCATGCCCTCTTGCTAATCTATTAANAGTCAA  
ATCTGAA

Sequence 933

CCCTTTGAGCGGGCCGCCGGGCAGGTACAGTATGTTTCCACTTATGGACAGATAATTAC  
GTAGTAAACATAGAAACACACGAAGTAAAGGACACACACCAGTATCAGAACTAAGTCAC  
CCATGGGGAGGGACAGAAGGAAATAGGATGGAAAGGGGTGAGGGACTTCAACTGTATTT  
GTGATGTTTTAGTTCTTTAAACAAAAATCTAAATGACATTTGAAATATGAAACAAACGC  
AGAAAACATCAAAATGTCAACAATACTTAAACCTGAGTGTTGGGTGCCTGAATGTTATAT  
TGGTCTCTGCA

Sequence 934

CCCTTTGAGCGGGCCGCCGGGCAGGTACCCAGTATATGAGCAATTGCTCAGCAGTGTTT  
GGATATAGGGAGTGGATAGCTATTATTAATTGCAGATTATTTTGAAGGAAAAACACACA  
GAGAATTATGTATCTTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTACAAA  
GCTGCAGTTATAGAACAATTCTGATTTCTGCCTCACCCTCACGGTTAATACTGTAAAA  
CATTTCTACGTTTCATCTGATAGTGTTATTAATAAATAGCTGTTATTTTAATAGCTATA  
CTAAACATAAAAAATGTTTAGGCCAGGCGT

Sequence 935

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATTCATAAGATAAGGATTAATGAATTAAT  
ATATATAAATCCCTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATC  
AATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATATGTTTCGTAGTG  
ATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATATGTCTATTTGGTTTACCA  
CTGTATCCTCAACAACCTGCTGTTGTCCCTATTGTAGGTGTTAGGTATTAAGTGCAATGAT  
AGTGAATACATAAAGGTT

Sequence 936

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAG  
ATAGAGAACAGAAACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACA  
CAGGAGGTTGTGGGAACATATAGACAGTGACCAAACTTTTAAATGAATACAGGAAGATTTT  
CTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTTACCAGGTTTACAGAACTTAA  
GTGATAATAATCTTTTTATCATAAAAATTTAAGTGTGGTAGAGAATAAAAGTTTTGAATT  
AAATGTTGAATGAAATGTGTTAT

Sequence 937

CCCTTTGAGCGGGCCGCCGGGCAGGTACACTAAAAATAGAATATAAGGCAGTGAAATCA  
AATCCTGGCTCACTTGAAGAAATAACAGTCTGTGGGCAACTNGGTTGTTTCTCAGGTAC  
CTCAGGGACAGATGGTCCCTAAGGTGCAAAAGAATGAAGTGGTGCTGATATATGACTGA  
TAAGTTTCTGTAACGGGGCACTGACCATTTCAATTTCCCAAGGAACATAAATTACCTTTTA  
GCCTGTGTATTTACACACAAATATGCAACCTGCAAACTTCTTCTGAGGACAGATGTCAAC

Table 1

TACTTTTTCATTTTTTTTTTACAGTCAAA

Sequence 938

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTATACTTCACCAGATATCTATAGAACATT  
CCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACAT  
TCTCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAATTTAAAGGACTG  
ATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATAACAGAA  
GAAAATTTGGGAAATTCACAAATATGTAGAAATTAACAAACACACTCCTTAAACAACCAG  
TGGGTCAGAAAAGAAATCACAAGG

Sequence 939

CTTCCATACTCTTTTAATTGGATATGCCAGTGTGTNTCANTAATTTCCAGTGGCTGTAAA  
ACTTTGAGAAATTTGTAGCTTTTAGAAACCACATACCTGTATTGCCTGATTGCTTATTA  
AGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTTTTCC  
ATGAAAATTTGAGTGGTGACAAATTATAGAAATTTATCATTCAATTCAGTCTTAAGTAGAA  
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTT

Sequence 940

CCCTTTGAGCGGCCGCGGCCGAGGTACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGA  
GAAGCAAAGAAATGTGCCCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAG  
GTTGGTCGAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAGAGA  
AGAGACAGAAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAACTATGAAAAGCAAA  
AGATTTTGTTCGTGGTTTTTTTACTATAAAGGAAAACCTTTAAATAATAGCAAGAGTG  
CTATAGGTAAGATATCAGA

Sequence 941

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGA  
GACGGAAAAATTTGATATCAAAGGAAGTATCAAACCCTTGATGTGGTTAAGAGCATGGA  
TAGTGAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGCAAAGAAAC  
TGGAAATGTAGAGGATGAACATATTGGTAATAATAACTGGTGGAAATTGTTATTCAGGAA  
AAAATAGCAATTATTCCTGTTTCATATCTCAAATCATTGTATGTTGTTTATTTAAAGGGAG  
ACATGGTAGAAGATATCAAATATAAAAA

Sequence 942

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAG  
CTCTGGATTTTGCATGTGTGGGGCTTTTTTTTTGATAGTTATTTGTTTTTATTTAAAA  
ATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTATTGGCCAT  
CTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATTTGCCGTCTGCTGTGAAAT  
GTCTTAAATTTTTGCCCATTCTTAGTGATAAAACACTGAAGCACATTTTAAAGACT  
TCTGATGATTTTATTGT

Sequence 943

CCCTTTGAGCGGCCGCGGCCGAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTG  
GTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTT  
ACTGATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAG  
CTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCATAAATTTTGGAGC  
TGTTAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTAGACCTTTTATCA  
TTAGGAAAC

Sequence 944

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATCAACTTTCCTTTTTACTATCTGGAAAT  
AGGAAAATGTTCCATTCACTATGGTGACAAAACGTGAAAATAGGAATATATTTCTGAGGA  
AAGTATAGGTATTTACAAATAGATAAACTATATTCTTAGATGAGAATACTTAATACCCAC  
TTTACAAAATTAATAATGAATTACAGCTTTTTTAAAAATAGATTAAGCTGGGTGTGATGAC  
ATGGCACCTATAGTCACAGCTACTCAGAAGGCTGAGGCAGGAGAAGCACCTGAGCCCAGG  
AGTTTGAGGCTCTAGTGAGCTAT

Sequence 945

CCCTTTGAGCGGCCGCGGCCGAGGTACCTGCAAGTCCAAAGAGGACCAGGAGGATCCC  
CGCCAAAAGAAGGGTAATCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGC  
TTGAATGAATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCTTGC  
CTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTGGCAGTGGCCCAGG  
GCAAGGTGTCAGAGCCCTAGTGGCAGGGAGATGGCATCCACATATGAGGGAGGGTGACAT  
GGTGCTAACTGGGCATCTACATAGGGCAGGG

Table 1

## Sequence 946

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACTGCATATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTNG  
ACTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGA  
AGCATTTCTGGGAGGTTTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAA  
ATTGGAAAATAGAAACNAGTATCTAGAAGAAAAATCACTCATAATTCCANCACCCTGTTA  
ATACTTTGTCTTTTCTTACAGTTTCTAATA

## Sequence 947

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAG  
AGCATGCTATAGAAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAG  
TGAGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGC

## Sequence 948

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACTGCATATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGA  
CTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAA  
GCATTTCTGGGAGGTTTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAA  
TTGGAAAATAGAAACAAGTATCTAGAAGAAAAATCACTCATAATTCCAGCACCTGTAA  
TACTTTGTCTTTTCTTACAGT

## Sequence 949

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACCAAGAACTAAATTGTGATACGATAGGTGACT  
TATGAGTAGCACAGAATGTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTG  
TCAAGGTAGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCAAAC  
TGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACTTTCTGAAAGTCATTT  
TTTCTTATTCACCTTTGTGCCTTTTTTTAAAGCTGCAGCTTCATGGAATTTAATCCTGG  
TATTTAAACACT

## Sequence 950

CCCTTTGAGCGGCCGCGCCGCGGCGAGGTACTTGGTAGGTTGATCTCTTTCATTCTCATGGT  
TTAATTACCATCTATTCACTGATTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTC  
TAAAAGGTCTGCACCCACATATGCAAATAAATA

## Sequence 951

CGGCCGAGGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCT  
AATTCTAGTGAGATTTTTTTCANAATATTTGGATGGTTCTCTCACTTTNGTTATTAAG  
CATTAGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACANA  
NAANATATGTTTTACGTCTTTAACCANTGTTTTCATAGTGNAAGTCAGGCCTTTCTCC  
TTTGATCTAAGTGGAACCAAGAGGTTAGATACTCCCTTTNCTTTAGTTATATAATGGGCT  
TCATGTAAT

## Sequence 952

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACG  
TTGCAAAACATTATAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCT  
TGGAACCATCAAATCTGTTAAGACTGAAAAGAATACCAATGTTTAAATATATCTATAAAA  
TGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCAACAACTTAGGTTGTTCT  
AACATACATACACAAATACAGGAGGGACGTTTATGGGTACATCTGCGAAACATTTTTTC  
CCAAAAAGCTGAATTTT

## Sequence 953

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATTATGCCACAAATTTTATCCTAAA  
TAAGAGTGATTCCCTGTTTCTTTTCTACAGAACATGTTTCTGTCCGCAAGAGAATAAG  
AAAACATGACCCCTCCATCCAGAACCAAACTAACTCAGGAGTGATTAGAATCACCTGTG  
GGCATTTTCCCCCAAACCCATACTCTGTAGATTCTGATAAGCGCTCTTAAAGAAGCT  
ACAGCTCTTCCCCATTCCCTATCTGAAAGCAAGGAACCACTGGCTTTGGTCAGGAAACAG  
GCATACAACATCAGATGTGATTATAA

## Sequence 954

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATGTTGTAAAATTTACTATAATTAATAGGA  
ATTAATTAATGAATGCCAAGGGGCGAGGCCACACTTCCTATGATAGTTCTTGCTATAAG  
GTGCTATTTTGTNCTCCTACATTTACTCCATAGTAAGCTNNTGTTTGAGAAAAAAATG  
CCAGTTTGGTGCGTAGTAGATACGCAGAGGCCTGNGAAAGGGACNGATGACNCCATTACC  
CCATGGGTACAGAATGTATAATGCTTCCCTCTCAAACCTGGGTTGNNTTGGNTTTTTTT

Table 1

## TACA

## Sequence 955

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAG  
CATAGCACCTCCATTGACCCACATGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGT  
CTCAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTGGGTTGTTG  
TGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCA  
GCGGCCCTAGGTAGAGGCCTGTTGAATTGGATGACAGTGAACCTTTCAGCATTTCCTAA  
CCTCAGAAGTTCAAGA

## Sequence 956

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGCTTTATTTCAGTCTAGGTAAGAAATGTAA  
TGGATGTGTGCAGGTGACATAATTTAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGC  
AAATATTCTTAAAAAGAAAACTTAGGATTTTTTTTACAAAAGTTAACTTAAATGCAT  
TATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGTGAATAGTTCCTTCATTA  
GGATGTTGAAGGAATATGGTTTCAATATTCAACAAATGTCGTGATGCCTATAAATTTTTT  
TACAAACAAGAGTATTGT

## Sequence 957

CCCTTAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTG  
TGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACT  
GATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAGCTG  
TAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTCCATAAATTTTGGAGCTGT  
TAGGTGCATATACGTTTAGGATTATTTTGTCTTCTTGGTGAACCTAGACCTTTTATCATT  
GGAACTGTCCATATAACCAC

## Sequence 958

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC  
TAAATATTGATACAACCATTAAATAATGCTTATAGGGTAAAAGAAAATTTTGAAGCA  
CTGAATTCAGTAACCTGGGTCATGGTCCAATTTGCTCACTACTTCATATCTTTTATGTA  
GATTATTCCTATAAACATGTTCCCTAAATTCACATCAGTTTGTAAAGTCAATGGATTAA  
ATTATTCAAATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTAT

## Sequence 959

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAANA  
CAGCTTGCTATTTTAAAGTCCAGGCTGGACTCAAACCTCCTGAANATTGCTCAAGCAATCT  
TCCCACCTCAGCCTCCCAAGTAGCTGGATTACAGGTGTGATGTCCAGCTTAGGTTCCAG  
CTNTTAAANANTTGTCAAGTGTGGTGGGCGAGGTGGGTACATACACATATAATTATAAG  
GTAAAAATCACAACCTACTACAAGAAAGGTGCAACATTTATGAGAAAACCAAAGAAGGG

## Sequence 960

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCANAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAAGCTGTTGTAGAGAACATGGATCCTTGAGGGGGGTAAATGGGC  
AGATAATTCTAGCCACAGATTG

## Sequence 961

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAAGCTGTGTAGAGAACATGGATCCTTGAGGGGGTAAATGG

## Sequence 962

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAAGTGAACACTTGGATTTGGAATAACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCACTTTATAATTACAGTTTAAACCACCAC  
ACAACAAAATTAGGATGGTAGTGAAATGGAACCTAAATCAAATGCAAGGTTTTAGTTTAA

Table 1

TANAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAATAACCCAATNACA  
AAATTTGAAAATTAGGGTCAAACCT

Sequence 963

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCACTGAACACTTGGATTGGAAAATACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTTAACCACCAC  
AACAACAAAATTAGGATGGTAGTGAATGGAACATAATCAAATGCAAGGTTTTAGTTTAA  
TAGAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAATAACCCAATAACAA  
AATTGAAATA

Sequence 964

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGC  
CAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAGAAAATTCCCATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATG

Sequence 965

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTG  
CCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGCCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAGAAAATTCCCATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTANCATCAGTGAAACAAAAGTAG  
GGCTATAGAAAAACAATACTTATGAAAAACCAATTGGAAATTTTTAGATGGAAAAGCC  
TGAAAGTAAAAAATTCACACATGGTCTAAAAGAATAAACTGCACACAGCTTGAAGGGAA  
AATTAGTTAATTTTACCNAAGAAA

Sequence 966

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAACTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGA

Sequence 967

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAACTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGATACAAAAATAAATCAAACCTTCTAAAGATGAGAACTGTAGTGTGGAGG  
GGAAAAA

Sequence 968

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTCTAA  
AGCACCTACCTCATGGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT  
CCCTTAATGTCAGACCTTGAGTGGGCACTCAGCTTTATTAATTTATTTAGGTAATAAAAT  
TTACCTTCCTAATTAATTTCTCAGTAAGTCCTGGGAAGCTGTATTATTTTAAACATNTTG  
CACAATTGT

Sequence 969

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTCTAA  
AGCACCTACCTCATGGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT  
CCCTTAATGTCAAGACCTTGAGTGGCACTCAAGCTTTATTAATTTATTTAGGTAATAAAT

Table 1

TTTACCTTCCTAAATTAATTCTCAAGTAGTCCTGGGAGCTGTATTTATTTTAAACAT

Sequence 970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTNAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAACTAGCCANTNGAAGTCATGTGGGTTGGGATTNTTCTTTGT  
ANGANAGGNTCCTAATTACTAATNAGCTTTTCAAAATAN

Sequence 971

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTTAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAACTAGCCAGTGAAGTCATGTGGGTTTGGATTTCTTTGTAGGAA  
GGTTCCTAATTACTAATTAGCTTTTCAAAATAGTTATGAGAATATTCAGGTTTTCTATT  
CTTCCTGTGTCAATTTTGTGTCTTTTCTATAAATTTGTTCACTATAATTTAATATT  
TTTGGTATAATTTTTTCAAAAATAATCTGTATTTATTTTACAAGGACAGGGATCTTTA

Sequence 972

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGGGACAGAGTGAGACCCTGNCTN  
AAAAANNTTTTTTGNNTNTGANNNNNGANTAANGAAAAGAAAAGGAAAAGAAAAACA  
AGAAATTAGCTCATGATAGNCAGCTTTATATTATNAATTATGTGACACTTTGGATATTT  
AAAAGCACATTCACAAAGTGATTGTCACTTAAATACCTCAAAATTTCCCTGTTATACAT  
GCAGATCATTCCCCATTCAACCCTGGGTATGGGACTGAACTGTGTACCTTGCCCGGGGCG  
GGCCCGCTTCGAAAAAGGGGCGAAATTCAGCNACACTGGGGCGGGCCGTTTACTTAGT  
GGGATTCCCAGNCTTCGGGTACCCCAA

Sequence 973

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTC  
AAAAAAAAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGA  
AATTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATTTCAAAGCA  
CATTCACAAAGNGTATGTCACTTAAATACCTCAAAATTTCCCTGTTATACATGCAGATCA  
TTCCCCATTACGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGCCGCTCGAAAG  
GG

Sequence 974

CCCTTTGAGCGGGCCGCCCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCNANACTGTCTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAAACA  
CACAATCTTGACCAGTANCAGTTGAAANGGGAGTTTAAGGTGGGGGTGA

Sequence 975

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATNAAAAATTTCCGT  
NGGGGCNAANAAANGNNNTTNNCCNANCTCCGAGCAGTACCATGCTATATTGGTCACTG  
TAGCTCTGGTACATANTTTTNGAAGATTGGGGTAATGTGGATTCTCTAGCTTTGTAAAG  
CTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTTTTGGTTNCATATT  
AAATTTGTAAATAAAATTT

Sequence 976

CCCTTTGAGCGGGCCGCCCCGGGCAGGTACCTCTCATTTGTCACTTTTCAACACTTCCTGG  
CANGCAGGCANCATAACTGGTCCTGCTGGGTGATCCAGACCACACTCTGCAACTCTTTCT  
TTTGAGCCAAGGCTCCCCTACTGTCTTTTCAATTTATGTCAAGGCAGGGGGAAGACCTCA  
AAGGGCTCTTGCATCCCAGTCTCACTTCCCAAGAGAGGCACTGAGGCCCTCCAGGATGTG  
GGGACAGGAACCTTTGGGGCCAAGCCGGGGCTGTCCAGAAGATCACCAGGAGGGGGCTTAA  
TTAGTTNGAAAAGGGAGNAGGTCCTTT

Sequence 977

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGG  
CTATTAGTTAGTGATTCTTTGTAGATTTTCTGGAAAGTCTTGTTTGTATTAAACAT  
TAACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGAACAATAAT  
ACCAATTCATATGGACCTTCAAAATTAGTCTTATAAAATTTTATGGATATTGNATTAT  
CCCAAGCCAACCTGACTTTTGAGGACTGACAAATAATATCTTAACCTTAACCCAGGGGTG  
GATTTCTTGCCATTTNCCTTTTGGNTTT

Sequence 978

CCCTTTGAGCGGGCCGCCCCGGGCAGGTACGACTTCACAACACCAACCACAGGTCTCAAGG  
TCAAAAAATGAGCTAGGAGTAAAGTATCTGCTCCAGAATCTACCCCATCCAGAAAGAG

Table 1

CAACCCAACTGTGTCCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAAATT  
TANAAAGGGTGTGGACCAAGGGATTTTNGGTTAATGTATCNCTAAAAGCANGCTGACTGC  
CAGGATTTCAAGT

Sequence 979

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCTGGCAGCAGAGTAGGCACTAATATGTGTTG  
AATGAGTAGGTGAAATAAACAAAAACCTAATGGCGATGGAATTTTATGGAAATAAGTAAA  
CTTCATTATTGCTGAAAATACCGCAGATAAATAGAGGGAGGCAGTGTAAATAGAGTGAGAAA  
GAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTTGAAGGTGAATAGC  
CATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTTTCTTATCTGTAAAAGGGGGGAAG  
TCATAATAGCTACTCCTGCCTAACTCATANGTTGTTGAGAAAATGAAGTGATT

Sequence 980

CCCTTTTCGAGCGGCCGCCGGGCAGGTACATTACCTTTTATGTATGCTGGAATAAGAACT  
TGTGTCTACATGCATGTAGAAACAATGGAAGGATAGGCAAGGAAAAATGAAAAAAAATGA  
TAACCTATGGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCGCA  
ATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTAGTTAAATGCAGT  
AAGAAATTCCTCCACAAGCTCTGCAAAATAAGTTCTGTCAATCAAATCTTACATGATGCAT  
TAACTGAGCTATTTTAAAATACTACCATGGAATTCATCTTTAAAGGGTGACCTTTGTAAA  
AG

Sequence 981

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTA  
ATAAGCCAAAGAAATGGCTCTTTAACAATGAACATTTCTGCCATCAACTGACAGATCCCA  
GGAATAAATGTTTTCCAGTGAGGAGACTTCTCTGGTTTTCAGAACACCTCTGGCTGCCCC  
TGCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGCATCATCACCTAGAGCCAA  
CAAGTCAAGGAGGTGATGGTTTGCCTTTGACATCTCTACCCAGACCAGACTCCACTGGAG  
AAGACTCTCCCTTTTTTTCATCACTGCCCTACCTAGTTAGGTTGGTCCTGC

Sequence 982

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGGAAAAAATTAG  
CATTCAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTTCTCTGGAGTGGAAGCCTAGTAAGATTTATTT

Sequence 983

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACATTTCAAGACATGGCCCAATGCACAAG  
CAACTTCCCAAGCTGTAATTCACGAGATTCCTCAGGGTCCTCTAAGCTCCTTGAGGGCA  
GAAACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTGTTGAGCTGATTTTCTTT  
TTCTTTTTTAAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCTATGCCCAGATGGTCTGAT  
TCTGAAGGACAAGAGAATTCAGNTGGCATAAGCCCTGTGCTTGGCATGTAGTANGTTTCT  
CAGTAACTTTANCTGGCGGGA

Sequence 984

GAATTCGCCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTAGTAAAGATGGGGTTTTGCC  
ATGTTGGCTAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCC  
AAAGTGCTGAAATTACAGGTGTGAGCCACCGCGCCCGGCCGAGGACACTATTTTTTGTCT  
TTGGAAGAAATGAATCCTAGTTTTGGTTCAAGAACTGTCAACAGCATTGTGCCTCTTCTA  
TGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAAGCAGGGCTATTCCCCG  
CCTTCAGACAATGCTTGTCCTTATCAAGGGCAGACTGCTGTCTGG

Sequence 985

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACTTAATTTTTTTTTTTTTTTTATAGTAGAGA  
TGAGGTTTACCAGTGTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTG  
CCTCAGCCTCCCAAAGTGTGGGATTACAGGAGTGAGCCACCGCAGCCTGTGTGTG  
TTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTAAATTGACAAATAATTTTAT  
ATATGGGGTATAATGTGATGTTTTGATGTATACATTGTTGTATACGTTGTAATTGTATAC  
ATTGGGGTTGTATACATTGGGATGTATACCATTGAAATTATTTGNATCCAGAAAATTAA

Sequence 986

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGAATACATAATTTTGAATGGAGTCAGGGC  
TTTCCTAATGATCCATTTTGTAAATTCACCTAACAGCTGAGGGAAGGTCCAGAGAAGGAAG



Table 1

AACTCAAGGTTAGTAGACAACTTGATATTGAGTTGCACTGGCTGCCTTCTCTTTTTGGT  
CCCCTAAAGAGTATTTATCATCTTAGATTACAGCTTAAGTTGTGGACAAATATCAAGGGGA  
AAAGTATTTACAGTTAACGTTGGAATCACACGGTTTTCCGGGGTTGTGCCTCTTACCCT  
TCAACTTTGGTGGTTTCTAAAGAGGGACCGATTATTAGTTGCTTCTACTAAGGAAGGGGA  
AG

## Sequence 987

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCCTAGAAAATATTTTTTTTTTTGAAATGG  
AGTCTCACTGTGTGCGCCAGGCTGGAGTGCAGTGGCNCAAATCTTCNTCTNAAAAAAAAA  
AAAAACAAAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTAAATGTTCTTAATTC  
CTTCAATCATCCCCCTCTTCTAACTNTNACAGCACTTTCTTCCACTACGGCAGCATTAC  
ACGCCAACTACTCACCAGTTCACGTTTTCCGCCCTNTNTCCCACTTGCCCAATCACAGAN  
TTCTTAAAGAACCAGGACTATGTTCTACTAGTCTTTGTAGCCACTGCACT

## Sequence 988

CCCTTTGAGCGGCCGCGCCGGGCGAGGTACTCCTGTTTCTACAAATTTATCTTATAATAAT  
TTGTCAAATGTTGAGTGCACAGATTTATTCATTGCAGCATTTGGTTTTTCATATCAAAAG  
ATGGGAAACATTGTGCAACAATGCCCATCAGTAGTGGATTGATTAATAAATTAGGTAT  
ATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGAATATGGAAAGAT  
TTGAAAAATATTGCTAAGATTAAAAAAAGGAAGGGGCAGAAGAAAAATAAGTTGGGTA  
AAAAAAACCCAGAAATGTTTACTAATAATTATTTAAAACTCATAGGATAAACAAGG  
AAGGGTAATGAAATAATTAAT

## Sequence 989

CCCTTAGNNTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTAGAN  
ACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTNGAATTNCTTGGACTCAANCAATCCT  
CCCGTGTTAGCCTCCCAAATTTGCTAGGGTTATAGGTGTGAGCCACCCTGCCAGCCTATG  
TTTATTTAGATGTTCAAAACAACAAACAAAAATAACACACTNGAAAAAATGATCAGAGA  
ATACGTGTTAAATGAGAAATNGTTGAGGGCTTTTATAAATTTGTGACCTCCACCCTTCCC  
CTTANTCCTTTTTCTCCATAAACTCTAATTNCAAATTTTACTACCACAGCAAAAAAGAGG

## Sequence 990

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGC  
TCCAAAAATTAATAAAAAATAAATTTTACAGAAATACATATTTGCATTGGAATATTT  
AAGAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTNATAGGNAGCTGGGCACAGTGG  
CTCACACCTGTAATCCTAGCACTTTGGG

## Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAAACCTAAAGTATAATAATAATAAAATTA  
AAAAACCAAAAAACAAAGATTAACAGAAAAACAAACANCAAAAAAACTCCCAGCATATAC  
ATTGAGTCATTTGCAGGTTTGGGAGGGGGGAAATGCTTTTTTGTATTAGGAGAAAGGGA  
AGCTTTTCATTTAAATGGCTATATTACTTAAAGTTGCANTAAATATTTATTACTTTT

## Sequence 992

TGCTCGCTGGACAGAGGGCAACCCAACACTCTAGCCTAAAGCCCCGTGACACCTGCAGCA  
GGTGCTTGCCACGCNTTGCACCCGTTCCCGAANTAAAAAGTCGCCGGTCTTANAAGGCG  
NCGAGNTCTTGGTNGACCTTTGNGCANCCCCACCCGTTGCCAGTCTTGAATGNGGTTACC  
CCANAGNCGCCNCAGGCTGACATGGGAAAGGATGTTCTTTGGGAAAAAAAAAAATGGAAC  
CCCGGTGGGTAGNCCCTTGNGGGGCNTGGGNAGCCCCCGGANGGGGTTCGCCGNCNGT  
T  
TGGCCGGGGCNCAAATTCANAAGNCAAGGGTTGGGGGNATCCCCGNGGGGAACCTTGGG  
G

## Sequence 993

ATGCAGAAATTCGCCCTTTGAGCGGCCGCGCGGGCAGGTACCCCATCAGAGTGTTTCTCTT  
GGCTTNCCTGTATGTAAACCTTACCTAATACTTTAGTCACTACTTTCTGTGTTTCATT  
TCCCTTTTAAGNCAAAAAANGGGANGNAAGTAAGTTGGNNATTTGGNGTTTCAAAGNGNC  
CAATTGNCCTTTGNCCTTTTTTCA

## Sequence 994

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTTGTTCTCAAACCTTTCATGTTTGTGTATA  
CAAATCAGCTGAGGCCTTCACTAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTG  
ACTCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCCTGACAATTC



Table 1

CGATGTAGGTGGTCCTTAGAACATATTTTGAGAAATATATTCTGTAGTCTGGCAGATAAA  
GAATTCCTTAACAAGGAGGTCTGCCCGGGCGGCCGNTCGAAAGGGCGA

Sequence 995

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCATCTGTTCCCTCTGGTTATAAATCTTTA  
ATGAAAACGGATTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAAT  
GAGAAGCAAAAGACATGCCATAAAGATGATTTCCACAGGAACGATATTAGAATTATG  
TGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACAGCTAAAAATGTATCATAA  
TAGCAAGGATACAGTAGCAAGGATGGGCCTCAATAAACATTTAAAGTGAAAAATTCTTC  
TCTAACTCATATCAAGTACCTGCCCGGGCGGC

Sequence 996

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAAAATAGATAAGGATCCTGTTTTTTGAAAT  
GAACCCAGTTGCGCCTTAGGCATTGTGAGTTGGCTCATTTCAAGCCAGTTGTAATATGG  
TTTTTTATTCTCTAAATTTTCGGGACCTGATGCTAAGGAATGTGAATATACAGTTAGGTTT  
CTGCGAACCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTATGACACTAAATGCT  
TATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGGCTCATGCCTGTAATCCCAGCATT  
TTGGGAGGCCGAGCCAGGTGGAT

Sequence 997

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCAACAATAGCTACAAAGGATAGGATACTC  
AATTGCAAGTAGACTTTTCAAAATTAATTTCACTTACTTCTATTCCCAACTCAATCTAGA  
ATATTATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCAAATTTTACCAATC  
TAATTGTTTTTACTCACACCTGTNGATGTCACCTTAAAAATGTGAATATTAATTTCTTCA  
AAACTACTCCAATTTAAGTAATGAGTTAGAGCTTTGGCAACCATTAAAGGCTCTCTTTTCC  
CAACTCTAACAATATGTGGTAATGCTTCCCTGACTTCATTTTATGTTTACACAAAATCA  
AAGGTTATATTTAAAGGGTTTTCTACATTTTTTTGGGATATTTACCTCCTTGNAATTTAG  
NNTTATATGTCTGGATTACAAAACATATNATATTCAAAGAATTTNTAACACTTAGAGGT  
AGAAGTGAAATTACAGGTTGAAGAATTATTTAA

Sequence 998

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATT  
CATGATAAATTTTGAGAACCACTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGC  
AACCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCACGTGTGAC  
TTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTTCTGCTCTGGTATTTTTAC  
TTATATTCTATTAAATAGATATGTGTGTATAAACTTATTGATATAAAAATGTGGTCATGA  
TCCACTAAAGTGATTTTACAAGCCACTAATGG

Sequence 999

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTNAACTTGGGTNTCCTTTTTNATNATTCTGN  
AAAATNANAAAAACCNAANCCTGTTNATNTAGGGTTTTNATGGNTANAGTTGNANAAAA  
CTGNNTTTTGTNAGTTTNAANAAGNCCATTNAAATGAGTNAAATTTTTNAAAANCCTCNA  
AANCNAACAAANCTGNAAAAAAGTAGGGGNGGGGGTNAATGGTTNATTTNAAATGTTTG  
CCTTCANTANCATGAGAGGG

Sequence 1000

CCCTTCGAGCGGCCGCCCGGGCAGGTACTAAGTATTTATTTAAAAAAGCATTAAAT  
TTATCTATCTATATAACTAAATCTATCAAATATTCTTTAAACACGAACCAAAGTTAATC  
TGAAACTCTTCCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTCATT  
ATTTCTGTGGCATTATACTATGCCCTTTGTCATATGCTTTTTTTCCCATAGAGCATT  
TTCCCATAGAACTTTGTATTCTCCACTTCTACCACCTTTCTTTGAAGAACTCTTATTTA  
CCATTTCTTGGACTAAATTAGGAA

Sequence 1001

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAATATGGTATATCTCTTCATTTATTTAGC  
TCTTTTTAAATTTGTTTTGGTAATATTCTGTGATTTTTTTTTTTTTTTTGGTATGGAGG  
TCTTACATCTTTGTAAAATTTATTCCTAATACTTTGGATTTTGACATTATCATAAAGA  
AAATTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAACATATANTTAATNTTTAT  
ATTTAATCTTGATCCTATNACTTTGCTAAATTCATATA

Sequence 1002

CCCTTCGAGCGGCCGCCCGGGCAGGTACTACTTGGCATTAAATTAGATTGTGATCATAAG  
TCAAAATGTCATTGGTTATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGT

Table 1

TATGTTTTAGTTTATTGCAGTGAAAATACAAAATTTAAAAGTTATTGTAGAGAATTATCA  
TACCCCCCAAAAAGTGTCAATTGGTCTCCAGGACTCTGTAGTCCCCATCCAAGAAAGACT  
GTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATGGTTGATGGTGCTCTGTCATTCTG  
GTATTAACAACCTGCCAAATGTCTTGATTACATGTCCTAAAAAAGTGAGGGGAAGAAGT  
GTAGGACAAATGCAAAATAAAATAACACATTTAGCTATACTTTTAAGTATTTTTTATT

Sequence 1003

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTCACTGAACCAA  
TTTTCTATACCTTTTTCTTGATTCTTTTCTTAGCTTTTGTATATGGTTGCTATATT  
TTTCAAGCCTCATACCAGTCATATAAAACCATGATAAACTTCATCAAAGCATACTTGGG  
CAAATTTCAATTATCAAGTAAATTTGTAAGAAAAATTTTTACTAGTTTGGAATAGAT  
CTACATGTTTGATTTTCTTCTCCTCCCTCCTTTGTTTCTGTCTTCTCTCCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTCACCAAATTAGTGTGGTATACCCATAA

Sequence 1004

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGAACCTTAAAAGTTGAACAACAAAAAAGA  
AGGAAAATGCGTTAATACCTTATTGTAATTATTATTTTTGGAAGACTATTTTTATATT  
CAGAAGAAGTGTCAAGTCAAGTCAAGGAAAGGATTATTTCTCCATTACCTACAACAATGGT  
TTTAAATGACTGGATAGATAGAAATCTCTTCAACTTAACTGCTTAGCATTGCAATTTT  
TCTCTGTTTCAAGTTAGTTTTCCAAAGGATTACTGACTTTTACCTAATTTGCTAAGGGA  
TGTCAGGCCTTAATGACATATTTCTCCTCAAATAAAGGATACAACATGC

Sequence 1005

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATANGGAATAT  
AACACTTGACTATTCTGATTCAGNAGAACATAAAAAATGTTCTAACAAAACAGAACCGA  
CACATTTATATNTATTTCTACAAGTNAACAGAATATCTATTAGA

Sequence 1006

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAGTTCTGCTTGCAATTGGTCCCATTACAAT  
CCTGTCTAAATCCTGAAGTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCATGTGA  
AAGAGGCTGGTCCAACCTCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTTAGG  
AAAGGTTGCATTAATATTCAAGTAGTTAAAATGTGCGATTCTAAATTTTTGTAATTTCCC  
ATGAGAGAATAAATTTTTTCAAAAATATCCAGTAGGTGAATGGCTTTAATACATGGTA  
TCTGTGAAGATGGCAAATAAAATGAC

Sequence 1007

NTNTTNGNNNAATNCNCNNTTAGCGNGGTGCGAGGGGCGNGGNNCATNTAAAANGTGATGC  
TAATACTTTAAATGTGTTAAGATATATGATTTAAAAGCATTGTNAATTGTATACTGCA  
GTGTCGTCTACATGGCATTGGACAGGACANTAATTGTAAACATAAANAGTGCNAATTG  
TTACACTTACATATGAATAGCTGAAATGNGCAACAGTGGACGCAANTTTTTNGTTCTTC  
AAGTTTTANTAATTACCCCAANAANACCTATTTAACNAGGCTGATNCTAACNTGGGGGAT  
ATTTAATGGNTTTCTTATTAATTTGGACCNAAAAANTCTTTTTGGAATTAANCTTGGGCN  
ANTTCGCAACCAAAACCAAATTTTAAT

Sequence 1008

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGG  
AGGCTATTCAAGCTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCT  
TTGTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTATCGAATTCC  
TGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAGTTGAGCTTTTCTATTCT  
AGAATTTCAAGATTTCTTCTTTTTTAAAAATTTATCTCCTTTTATAGTAGTAAAAATAT  
TTTCTTTTTTTTTGGAATGGGAGGTCTTAAGCTCAGTGTCAAAAATAAAATCATTTT

Sequence 1009

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTGCTACAGCGTTTAGCTCCGTTTGT  
TTGCATAAAGATCTGTTTTCTGACTTCGCATGAGGGGTAGATGTTACGCTTATTCTCACT  
ATGTAAATTAAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCCACCAG  
ACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTCTCCCACTTCTCTGA  
GGATTACCTTCCCCTCTCTCANCATTCTCTGTGTCAGTGGCTTTTTTTTCTTTGGCATG  
CAAACATGCTCAAGTCTGTCTTATA

Sequence 1010

CCCTTAGCGTGGTCGCGTNTTCGAGGTACTCTTTTCAAGTGAAGTGTTCCGGTCACCTGGA  
ACCTGTGAGTATGTGGTTTTTGATCTGTGACTAACTGTCCCCATTTCCAGTTTCTCTG

Table 1

CTCCGTCAAATATCAACATTTTACCAGGTTTCTCTGTTGTTGCCAAACCTGTCATTTTTA  
 TTTGGTGTGGCTTCTTGGGAACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAAAA  
 CAAGGACAGATGCACCAGAGGTGGCATCAGGAACAAATGGGTCATAAGAACTTACCTTGG  
 CAGCAGCCCCAGAATGGTNAGGAGGAAAGGCCACTNTAAGGTATCAGAAGGTAGAAAGGAN  
 AGGTTGGATNATAGNAATGGGGGAAAGG

## Sequence 1011

CCCTTNTNNTGGTCGCGGCCGAGGTACTGAGACACTGGATCCTAAGAAAATCAGAGTTAT  
 AGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTATTCTGAGCATGTTCTGTAA  
 TAGGATAGATAGGCGATGTGGCAGCAACAACCTCCCAATTCGTAATGTCTTAAAAACAAAA  
 CAAGTTTTATTTCCCATTTATGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCC  
 ATGCATTTACTCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT  
 GGAACCTGTTGCCACTCTGATGGCAGCAGAGAACAAAAGAA

## Sequence 1012

CCCTTTGAGCGGCCNTTTNNGGCAGGTACGGGCTTTTTTGTCTTGTGCAGTAACAGTG  
 AGGGCATGATTAGCCATCTTTGCCAGCTGATGTCTTGTGGACACCTGCCTTGTTACCAC  
 TCTAACAGGCCCGTGTGAGCAGCTCCGCTTCTCTGACAAGCTGCGAGCACAGGGGACA  
 GCACAATCTGAAACTCTTACNGATACCAACAGCAACAAAATGAAAGCAGTTATGGTGGG  
 CAAGCATTAATCTAAAATTTTTTTTAA

## Sequence 1013

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGTCTCACCATGTTGGCCAGGCC  
 G

GTCTCAAATTCCTGACCTCAAGTGATCCTCCCCGTGAGCCTCCCAAAGTGCCAGGATTA  
 TAAGCAGGAGCCACCGCGCCAGCCTATTTGTTTCTTAAATTTTTTGTCTTTCAGTCA  
 CCACAATTTACCATGCATAAATCACAACGGTTAACAATTTAGCATCTTTGCCCTTCTTT  
 CCTGTGCATTACGTTTTTATGTAGCCAAGTACACACGTTGCATTTTGCTGCTTTCCTTA  
 ACAGCGTCTAAGTCATCAGCACTCTATTGTGATGATTTATCTTAAAAATATTCCAAGCGA  
 TCATTTTTAGTAAGTGTGAATATTATATCATAAAGTTAAACATAATTTGTCATTCAAT  
 TGTTGAAATTTTTAGGTTACGTATATTTTCTCTTATAAATATGTAAATATGTTTAAAA  
 AGTTATATACAGTTTTTATAAATCTTTGTGCATACTTTATACTGGTTCCTTAGCATAGA  
 GACTGTGGGAATAGGATTTCTTGAAAAAANGTAAAAAGTGTGAGTATGCATATATACCTG  
 GTACATATATGTTATTATTATAAANGGTAATATTCTTTTTTTTTTGGAGAAAGAANTCTC  
 ACTGNACTTCANNCTGGGGTAAAGTGAGACCCCTGTCTNAAACCAACCGGAAAAAAA

## Sequence 1014

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTATTCAGACAAGAGTTCTGACTCTCATGCTT  
 GAGGATAAGATTATACATTTTCAAGTATTACATTGAAGATATTTTCAATTTTAAACCAGACTAA  
 CTTAGTATATTGTTATTTTTAATGTGACCAAAGAAATATTTTCATAGAAGCTAATGCTGA  
 GTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCAAAAAATTTATTTTCTACTATTTAC  
 ATATTATCCTAGTGGATATTACATTACTTACTGAAGCCTTTGGTTCTATGTTTCATCTAC  
 TCAGACTTAATTCAGGAAGAGCTTCATCCAGATGTTTTGTTTATTTGTTTCTCGATTACA  
 TGTATGAGATTTTCAAGATTTATGAGATCATAGGTCAAGTGAAAGGTCACAGTTGAGAGGT  
 CAAGTAAGAAGCTAAAATTTGTGAAACCAAAGAAATGACAGGACAGTGCCAAATGAAAGG  
 TCAAAAGTCAAGTGACAGACTCAGTACCTCGGCCCGCGACCACGCTAAGGG

## Sequence 1015

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGAGAACCAAGTGACAACCTGTCAAATTA  
 TTGTAGTTAGCCAGTGAATTTTCAATTTTGAATTTTTTCTTTCTTTGAGACAGGGTCTTG  
 CTGTTGCTCAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTCTC  
 AGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTTCTGAATTTTTTA  
 AACAAATAAATATCAAGCAATCAGATGCCAAAAATTACAAAAGAAAATCAGTATCAAAAA  
 TTTGGAGTTTGAGGCCAGGCACGGTGGCTCAGGCCTATAATCCCAGCACTTTGAGAAGCT  
 GAGGCGGGCAGATCACGAGGTGAGGAAATCGAGACCATCCTGGCTAGCACGGTGAAACCC  
 CGTCTCTACTAAAAGTACCTCGGCCCGCGACCACGCTAAAGGG

## Sequence 1016

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATAATAAGTTAACATATTTCCCTATATG  
 CGGAAAATGCTGACTATATCTTTGGTTGCTTTGGAACACTATCTCTCACAAACAGTCCT  
 TGTCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGCAACATTCCG  
 TAAAACCAGAAATGATGTGTGACAAGAACTAAAGAACTGGACGAAATTCATTCCATTCC

Table 1

ACCCTGGTTAAAGCTTCCTTGAATCAGAGATAAGAAACAACATGAAAAATCTATTCCTTT  
TAGAAAAACAAGTCTTTAACCAGAGGTTGGTTTATTTTGAAGGAATTAGACTCTGGGC  
CCACATACCGCTCGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGT  
GACTTTTAAAGCAGAGAAGTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATATAACTCAG  
ACATCAATAATTCATTTTATTGGAAATAGGAGTAGTAGTATGAAATGCTAGCANACTGTT  
TCATTTGCAGGGAGGCATTTTCTA

## Sequence 1017

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGAT  
GGAGACTGGCTATAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTTGCTT  
TGAAGGACTGGTGACAAAGTTTGGACTTTACCTTGACAGACAGTGGGGAGCCATTGAAGAT  
TTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTAATTTAAAAAATTTAAATTAAGG  
CTAGCAGGATTCAGTTTTCAAAGTGGCCAGCTGTGGACTAAATCCAGCCTACAGATACAT  
CTTGTTTGACCAGCAGAGAGGCTTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGA  
GAAGATTAAATATAAAATTTCAAGTTTCCATCATCTTTTTAAATATTAGGAGTTCAGCA  
ATGCCGGGCTTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTTAAAGCAAGCTGT  
GCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTTCTTTTACCTACTGACCCCATATNCATT  
TTTAAAGATTTTTTAATTTTTATGGATACATAATACTTGNNCCTGCC

## Sequence 1018

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGTTTACTTGGGA  
TGCATCAGTGAACAAAACAAAGGTATCTGTCTTATGAAATTTATATCATAGCAGAGGAA  
GACTGGAAATGAATAAATAAATAAAGAATGGAGTTTGTGGAAGGTAATAAGTTCTGTGG  
AAACAAGGAAAACCAAGGCATGGAGGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGAT  
TGCTCTTGCTCAGTTTTCTGTCTTCTTTGTTTAGGAAATTGTCATTCTCTGTATGCTTC  
ATTATAATATACAAATAAATATGAATTGTTATAATTTAAGATAAAATTATATAAATATAA  
ATTATAA

## Sequence 1019

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA  
CCTAGAAAAATTTCTTATACGCAACAGATATTCATAGAAATATATATTTAAATAAAGCTT  
GAAGGGTGAATTAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAACAAATATT  
TACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTTCATATACAGAGTTCTTGCCCTTG  
GGAGTTNTACAACCTGCTTAACACTTTGTCTATGCTAGAATACA

## Sequence 1020

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATGCTTTTCAAGCCAGGAGCAGAAAGAGAAG  
TGGGCTCTTTGCTTTGAGAGTCTCTGAAAATTTTCAATACCCTGGGACAAATTAATGAG  
GTAGATCCTTTCTTTGAATTTGTTAATAAAGCATGCTTGTTTTGTCTCCATAAAACAGGCT  
TTGACCATTAAGGTTTATATTTTAAATGGGTAAATTTTATTGTAATACACTAATTTAAG  
AAAAGAATTAACCTATGGCTTAAAGCAAAAACAGACCTTGGATTTACCCATAACTTT  
AAGGCTGGTCATTTTAAACCCTGATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTAT  
TTGGCTAAATATTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAG  
CTAGAGTGAAAATGTTAAAAACAAAACAAAAAAGACAGCATACTGGCTACCAGTTTTCT  
TAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAA  
GGATATTTCTTCACTGAAAGAAAAC

## Sequence 1021

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTACAGTCTTAAGATATCCATACACCCCCAC  
ATCCGTCCTTTGTGCTAGAAGATTACTGAANATTTAATTCCATTTATGTCATTGGATTTG  
TAAAAAACCCCTTCTGGATTCAAAGATGAAGGCCCTCACTTACTTTATTTTGTCAATTTT  
ACAGACCCCTTATGTAAATGCCTCAAGAGTAAAGAATCTTGCTCAAGTGATTTTGTATC  
TCCAATGGCTAACAAGGAGCCTGACATAGAAGTAGCTGCTTGGTAAATATGTGTTCAATC  
ATTCAACAAATACCCCCCAAGGGACCTCGGGCCGGGGACCACCGCTAAGGGCGAAATTC  
AGCACACTGGGCGGGCCGGTTACTAAGTGGATCTCGAGCTCGGTACCAAGCTTGCCGTA  
ATCATGGTCATAG

## Sequence 1022

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGTGTGGGCCACTAATACATAAGCATCTGTGT  
TGGCTGGGGGTAGGTGTAGGGGGTGCCTGGGGAGAGATTTAAACAAACCCTTCTCTAC  
TTGCAACATCTCTTAAAGCTTGTATCATGTTACTTCCTATTTCTTTAGAGTTCATTTG  
TTTAAAGACGGAAACGTGCTTCATCTTGCTTTTCTGCAATCTTTGTAACTTAATA

Table 1

TTCTAATTANCCCCAACACGGAAAAGAATGTAACACAACCTGTCTTAGTTGTGCCATAGAG  
TTAGAATCTATCTATTAACATGTTTTAGGTNATAACAAGAAAAATAATAAAAAACAACT  
ATTATGAGAAGCTGCCCATGCCAATAAATTTTGAACATTACCAGGAAATATAAAAGGAA  
NG

## Sequence 1023

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATATTTCAAACAACATTTTCTAAATTAATT  
AATGTTTTCACTCATAATTATGTGTTCTTCCCACTTCTATATTCTCTATTTGGGGAAATA  
ATCCCATCAACCACCCAACGGCCCAACAGGAACCTGAAACTAACCATATTTCCCTCCC  
ATTGCACATAAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATCCACTCTTCTATTTG  
CAGTGGCAATACTTAGGGCTTNCCTTACTTTTTACCAGGACTATTACTAGAGCTNCCTAA  
ATGCTTTCTATCTGTAGGCTTACTCTTCTGCATTTCTAT

## Sequence 1024

CCCTTAGCGTGGTTCGCGGCCGAGGTACCCACAATGGAAAGATGATCTTCCTGCATTGTGA  
AGGTTGTTCTCATCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGC  
AATGGAAAGAGGACACATCCGCTTGCCAGGTCACTTCTATCAGTTGATGACATGCCATAT  
TGTTATGGCTAGGTCAGCTTTCCACAAGTATGCACATGCAAAATAGAAGTTGGGAAAAAA  
ATCTTTGATTTGGCCCTTTACCAAGTGGATCAGGTGTGTCAGAGTTCAAGTTGAGCAAAG  
GTCAGAGTTTAA

## Sequence 1025

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTTTCTCCCTTCGGACCACTCTCCCCACTA  
GACAGCTGTATGGCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACC  
TCATTGTCTCAAACATTATATAGAACACACACGCACCCATGCACGCACACCGTCGTTCTT  
CATCCGCCTGGTTCGGTGCATATTCCAGGACCTACAGCAGTGCCTAGAACACAGAACAT  
CCATTAGCAACATTTGTTTAATGAATTTATAGTGCCTAAACCTGCACAACCTCTGACTTTG  
CCTTGCTATTAGAAAAATGCAAGGCCAGGCGCGGTGGCTCACACCTGTAATCCAGCACTT  
TGAGAGGCCGAGGTGGGCGGATCACTTGAGGTGAGGAGTTCAAGACAAGCCTGGCCAACA  
TGCGCAACCTNTTCTTTACTAAAAAT

## Sequence 1026

CCCTTAGCGTGGTTCGCGGCCGAGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAG  
TGGGGAAGGGGCAGGGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAA  
CAATTAAGATCATGTTTCTACTTGATTTTAGTTGCTAGTCATTTCTTAATCTAAGCACC  
CCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGTAATAATGTGGGGCGGGG  
GAAGTCTATACAAGAATATTAAGGCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAA  
TGAGAAAGCATCAAATTTGTTGTTGCAAAACAGCTGAAAGTAGAAGTAAATCACACGTAATA  
AGATGCAACTTTGGAGGAGCTCAAAGCAACANATACGTTTTTTATCCAAAAAGGAGTAAA  
AGAAAAATCGCNACGGCAGTTCCTTCAGATAATCAACNGATGATTTCATTTGANAAACCA  
TAATTAAGTAGCGTTGTTTGTAATAAATCTTTTTTCATTTATACNTTTTAATGNTTATTA  
A

## Sequence 1027

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATTCCTTTTCTCTTTCTAGACCGATTCTAG  
TTTGTGCTTCCCTTTCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGC  
CCCCCTGCATGCTGGGTGCTGCGCAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCC  
TTTGTCTTAAGAATGAGGTTTGAAAGCCCCAGTTCTTCCATGTTAGGTGATTTCTTGCA  
GCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAAATATTAACAGCTTT

## Sequence 1028

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGT  
GCAACAACCTTACTCGGTGTGGCAGGGGTNTCCNGGTGTCTGGCTCTGATCTTGGTCGCTG  
GATAGNCGNCTGTNTNTCTTTAGGTGCCCAAGGCGACGGC

## Sequence 1029

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAAACATTTAGACTCCTTTGTGCCTTNTGG  
AATGGGAATTGCTTAAGCTGTCCTGAAAAAATNGCCTTTAACATCTGTTNGATTGAGATT  
TGTGATACATAGAAGTTGGGAGGAAGATGTCGGAAAGCCCTAAGAGAGCTACTTGCCAAC  
CCCACCATNAGGTCTNCCTCAGTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGAAATT  
ACGATAAGNCTTTGAATGCAGCATAAACAGACC

## Sequence 1030

Table 1

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTGACCTGTATGTAACTCTAGTTACTTTGG  
TCTTCTCAGGCTCTTGACTCTTTCACAATTAAGTAGTCTTTGAGGCTCAGCNCTGCTTT  
CCTCATAGCTATGCTATTGGCCTGGACACTCAAGGGAGTATAAGCTNGAGGCAAACATGG  
ACTCATTTGTNTTCTAACTTTCAGGGGATTATTTGNCCATCATTGCCTGATGTCCAGTG  
TCT

## Sequence 1031

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTGTTTTGTTCAAAATCACAATTTAAATACT  
TCGTGATTTTAGAAATAATTGGAGCCACCGTTTTACCATTAAAGGTGAGTGATTGTTTCAG  
ATACATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAGACCATTCCCAGAG  
TGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAACTATAAGAATGACAAAC  
TACAGCAGTTGAAAATGTGTCTTCAGATACTCACTTGCAACTCCCATTATGTCTCTAGG  
GATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTTGGTCAGTAAGAGTGTAGGTAACA  
TATAAATATTAATGTTTCGTTGNAGTTAGTGTGGTACCTGCCCCGGGCGGCC

## Sequence 1032

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAAC  
CTCCCGGGCCCAAGCAATCCTCCCACCTCAGCCTCCCAGTAGCTGTGTTCCAAAGAAAT  
TTATTTATAAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCCACAGTTTGTCAACTGCC  
ATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATAACAATGCTATGATATAGA  
CACTGTGTTCTTTTAATAGACAAAGGAACCCAGGCACAGAAGGATTGACTAATATGACC  
AAAGTCACACTGCCAGTGAGTAGCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTC  
CACGACAGCAGCTTCTCAATGCTCTTTGGAGGGACCCAGAGCCAGGCAGTAGCAACGGCT  
ATGAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATGGTCCAGAGCTGGAGGGA  
GTGGAGAACTAGCCATTTGTGACTTTGTGAACAATCCCTGGGGGAGTCTGGAAATTA

## Sequence 1033

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGG  
AGTCAAAGATAGTTCCAAAACTTTTGAACAGAACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGAAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTAATTCATAGCTATATAGAGGTATTAAATTGGCAGGA  
CAAATCATAGCTAGAGATAAAAATTTAGAGTTCACCCAGTGTAAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAG

## Sequence 1034

TCGCCCCGCGTCCGNGNACGCGTGGGCAGGCATTANTTNNNGCCAGTTTATGAGTGTGA  
GCATACCACAGTACTGATTACTGTGAAGCTGAGNCCCATTTATATGTTNATTGATGTTT  
AAGATTTTCTGTTCAACAAATTGTTCAATTTCTTTGCCCGTNTTTTCTTTNTGAGTAATN  
CTTTGTATATTCNGGATGTTGATCATTATGGATTATAAAA

## Sequence 1035

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCATTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTAGCAGGACCTGGGTTTTGTTTTTAATCTCATTAAACCCCTTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGTGGGAAAATTCCAG  
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGGAGCCTTTCGATTGAGGC  
ACAGCCCAGGACTGCTGCAAGGGAGAGGCACAACAGAT

## Sequence 1036

AGTCGACCACGCGTCCGGTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAG  
TACCGCATGCATGAGGGCATCTGTGCCTTCCCTCTGTGGCGTTCTACAAGAGCAAGCTG  
AAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTGGGCCACGCTGGCAAGGAGAG  
C  
TGTCTGTCTATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
GAAGGGAATGAGAACTNCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACC  
AAGCAGCTGACCTGGGGAGGACCGTATAGCCCCAGGACATCNNGTCTCACGCCCTAC  
AACGCGCAGGCCTNTGAAGATCATCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGC  
CGTGTCTCTCATCACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGCTGTTGAGCACCGT  
CCCGCACCTGTGCCAAGAGCGACCTGNACCANCNGGCCACCAAGAGCTGGCTCAAGAAGT  
TTCTGGGCTTCGTTGTGGACCCCAACCAAGTGAACGTTGGCTTTCAACGCCGNCCTAAG  
ANGGGCTCTGNCTGATCNGAGGACCACCTTCTTNTTGGCGCTTGTGCCCCCTTTGGCCGT  
AANCNTNCTGGACNTTTTGGCAGGNTTAAAAAACCTTTTCCCTGGCCGGCCAGGTGCC



Table 1

CCTTNTTCAGGAAGGCCAATNTGCCTTTCTGAAAAGNCTTTTCACCTGCAAGNTGCCAGG  
ACTGGGANGGGAAAGTTNAGGGCCCCC

Sequence 1037

CCCTTTCGAGCGGCCGCCGGGCAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTANCAGGACCTGGGTTTTGTTTTAATCTCATTAAACCCCTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGTGGGAAAATTCCAG  
ATGCTAAATGATCTGGCTTGACCCAGCAGGTTGAGGTAGTGG

Sequence 1038

CCCTTTCGAGCGGCCGNNCGGGCAGGTACTTTGACTATTTTTAGCAACAAATTACTTTT  
GACACACAGCACAATTGATTTAACTTCCAATTTTGGAACTATTGGATAAATAATGATG  
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGATGCTCTT  
AGTAAAACTATTGTGACACTTCCTTCTTTCTCCAAATATTCTGGCCTGGAAAGACCTAA  
TACAATGCAGGGATTGAATCAAAATCACACATTTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAAACAAAACTAGTATAGATTCCCTTTATATTAATAGTTATATGGTAT  
TTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAAGAATATAGGCTAATTT

Sequence 1039

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTGGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGAAAAAAATTAG  
CATTCAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTCTCTGGAGTGGAAGCTAGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAAC  
CTTACAAGCAGTGTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGGAAGC  
CTGCTTCTCTGTGCCTCANCCGGAAGTCAAGTTACTCAGTAGTCATTTGCTAATTTCTGA  
GAACGCANCACTCCTGAAGGGGATAGAAAGCATGAACAATACCC

Sequence 1040

CCCTTTCGAGCGGCCGCCGGGCAGGACTCTTATCAACTGTTTTATAGATGAGAAAACAT  
TAGCCACAGCTTAGCTTATTTGAAGTCACAATAATATTAAGTAAGAGCAAAAGCCA  
AGATTCAAATGTAGATTATTTTACTACAGACTGAGAAACGAATTAAGTAGGAGCCTAAG  
ATACTTTCTGGAATTGAAATGATACATTATATATACCTATAAAGATAATTGGCTATAGCT  
TCCTAAACTACAAATTGTCATAAAAATGACTTCTGTCTATATCAATTAGAACTGGTAT  
TAAATTGAGTATTATAAGACAATAGAATGT

Sequence 1041

CCCTTCGAGCGGCCGCCGGGCAGGTACTGCAGGGCCCAAGAGCATACAAAGCTAGTTAT  
TTGGATCCAAAGTTGGTCAAGTGTGCAGTGTTTAGACATCATGATCTAGGCAAACAGAAT  
TCCTGGCCTGAAATATGTCAGTAGTTAGAAACATTAGAAGCTTTAGGTAATAAATATA  
AAAAACCAGTCAACCGTATTCTTATTTCTTCGTCAGAGAATCATGTGTCGTTTGGTTTAA  
CTTCCTGCTGGATTCTGGATGGGAGTTGTTGAACATATTAATCTCATTATTTTCTGTAGA  
GGACAGGTTGTCCCCCTTCCTCATTAGCG

Sequence 1042

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTTAAATTGTAGGGATGTCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTATG  
AAATCAGATATTTTCTATTCCATATCTTAACTTT

Sequence 1043

CCCTTAGCGTGGTCGCGGCCGAGGTACCCGTTTGTCCATGGCTATTCCAAATACCCCCAT  
GTTTATTTAAATGTATATATAATCAGTTACATAAAAAGAGGTATGCTTAAATCTCATG  
ACTCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTAATTCATTTAA  
AAAAAAGTGACTTTCTACCTTTAGATAGTGAGGACAATCTGTTAACTCTTTGTGTTG  
ATAAAAGCAAACATTTCAAGGGCACGGTGAAGAAATCTCTACCATGTATAAGGTTATATA  
TATACCAGAAGCAGTGGAGTTAGGACCAAAATTAAGATTGTA

Sequence 1044

CCCTTAGCGTGGTCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC

Table 1

CATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTTGTTTGT  
TGTTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAANGTCCC  
TGCCCGGGCGGCCGCTCNAAGGG

Sequence 1045

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTCTGGGTTGTGAATCTTGGAGGTTGCC  
TGTCAGACTGGTGAGATCCCAGTTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAG  
CCATAGATACTTTTGCTTAGTAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGGAACC  
TTTTCAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGGAATACCTCCCTGCA  
AAATCTTACACAACTAACTAATGTCATAAGGCCGAGGATGAGAAAGTAGCACTTAACTGT  
TTCATCCTCATCACATAAAGCATTCC

Sequence 1046

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGCACTTTCAAAGTAGTGGAATATAAATCTT  
TCCATTTAACAGCAACATTCAAATATTTCCCATTTCTGCTTATTATTCCTCTCTGAAGGTG  
ATACATAGAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGCTCA  
CATAGATCTTAAAGGAGAAGAATGAGGGATTGCTTACAACCCACAGCCAATCTATGTG  
GACACAAAGGGTGACTTCTTCTTCTATTACGTTCTTGAGGTAGAAATGGTAAACTAGC  
ATGACCTCGAATCATAATTTAATATCATTCTA

Sequence 1047

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTATTGGTAGTATCTCAGAATCCTGCTTAG  
CTTTTGAGATAAACCAAGTCATGATATTTGGGTAATATGGCCATAGGTATCATGCAAGA  
TTGAAGTCCCGATTTTGCTTTTCAATATTTACTTTGTAAGAACCTGACACTGTAGG  
TCCTCACACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAACTCATAGACCAAAA  
AAGCTAAACAAAAACAAAAGGAAAAAACCTCTATATACAATCACCTGCTTGTCTACAT  
TTAATTTGCTTCATTCAAATAAGCA

Sequence 1048

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTNTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTTAAATAAAAAACAATCCCAAAGGCCTGGAAATTCAG  
GAACATAATTCAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGANAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCNGCCNCGACCACNCTAAGGGCGAATTCCAGCACACTGGCNGN

Sequence 1049

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTATAAACAAAGGCATCATAAATAGATATAA  
AGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGA  
TTTTATTATCAGCTCATCACACCACCGAACTCTCTGGTGATTGCTATCCACATCCAT  
GGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGGTTAAATGGCAGGTG  
TGTTGACAAGAACTGTCTTAGGTACCTCG

Sequence 1050

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATCTCCAAATCAACTAGACTCTTATG  
TTAAGAATACTAACAAGAAAAATCCAAACCCCCAATAGAAAAATCCCCAACACAACAT  
ATACCCTTAAACACAAGAATTGTATTATTCAATGAAAGCAATACAAGTAAACACAACAGT  
TACCTTGGCTATTTTTTCAATGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1051

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCATCTCTTCCATTCTGGGAATCTGGGAAAC  
TAAGCCTGTAAGTTGTAGCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAAT  
ATATCATTAATGCACAGGTAAATAAATAAAAAATCTATTAATAAAGAGCCTAAAGAAAG  
AAAGATGACATTTGAGCACATATTGGGTGAAATAAGTTGTTTAGTCCAGCACTTCTCAAT  
TTTTAGTGGATATGTGAATTGCCTATTAAATGCAAATTTTAAATTAGTTAATCTGGGTT  
GGACCTGAGTCTGCGTTTCCAACAAGCTCCCAGGTGATGT

Sequence 1052

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAGCTATATACTCATATTTTTATT  
TTTATGTAAATTTCCAAATGCTTAATATGGCAGTATAATAATTATAACTAGATTTACT  
TCAAAACATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCATTGAATTAGGAATCAC  
ATGCTATTTTATTTAGCAGATATCTTCTTAATTAATGTTTGACCCATGTGAAGTCATT  
AACAGATCTGTTACGCATTATTCACATATGCAAATAATCTATATGATCTGAATACCATT  
TCCATCTTAAATACATATTCC

Sequence 1053



Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATCAAAAAAGACAAAAAGAAATGGTGT  
AAAAGCCACAGTAAACATAAACCTCATATCAAGTATAAAACCACACACTTTGCTCTTC  
ATCCGGACAATGCCCAAATTATACTGAGGTATTGGGGTGGGCTGATACCTTCAAACAGG  
GAGAGAGGGACCATGTTCAAGGAGGTGATTCTCGATTTAGGTGGTGACTGAATTTTTT  
TTTTAAGACAGGGTCTCACTCTGTCACCAGGCTGGAATGCAGTGACGTGATCTCGGCTC  
ACTGCAGCATCAACCTCCTGG

## Sequence 1054

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAATTACAAAATACTGTTGAGAGAAAT  
TAAAGAAGACAAATAAATGAAAAGAGACGGAACATGTTTTCGCTTGTAATACTCAGTAGG  
ATTAAGATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAATCANACTGGTT  
TTGTCTGAACGTTTTGAATAAGTCAATGGCTTATTTCAAATTCATATGAAATTTCAA  
TGCCAAAGANTAGGCAAAATATTTAGAAAAGAAGAAAGATTGAGGATTTGCAATAACCT  
GACTTCAAACCTCACTAGAAGAACGAGGCCAGACTGCCAGGGG

## Sequence 1055

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACGTTTCATGTCTCCTCTAGCCAACTATA  
AAGTTATTAACACAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGAC  
AGTGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACATATGAATT  
TGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCATTTTTAACACAAGAACTAT  
TGAGATTACTTATATATTAGTAGTAAATGTTTGTCTTATTCATTTTGATTGCAAACTT  
ATAATGAACCTCAGTGAACCTTGNCCACCTTTTT

## Sequence 1056

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTAACCTCACTGACTTACTCTGGGTTGCTAT  
TGTATTAATAATTCTGTATAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAA  
AATAAAAAATTCTTAAATCTTTAGTGTGGTGTCTATTAATTTTTATGATGATTTACAAGT  
TGGAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAGAGTGATTACAGTA  
AAGGAAAAATGCCATATATGGCATTGTTCTTAACAGCTTATGAAATTTGAAAACGATAT  
TTAGAAAGCTTTCTCTTGNTGGCTGGAATGAAGTGAGACCTGCT

## Sequence 1057

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCTTGTTCAAGGATATTTCTTCTATTTTTCTT  
TTGAGTTCTTGTTTCATATTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTTAACCAATA  
GACTTTTGTCTTCTTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTCTAAG  
TATAACAACCTTTACTATTAGCTGTAAATTTTCAATTTTAGTATGTCATCAATCTTTTT  
TTGTGNTTTAGTATGATTAAATGGTTTTTCACTTGAAAAGATATTGAATAGTCTACTTCA  
TTGATTTTTTTTTAAAGTCATTTTCAATTTTT

## Sequence 1058

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATACCAGAGTTAAATTGCCTGTGTTCTTTT  
CTGCCATTAACCTGGCTTTGGGTTGGGAAATTCAGATAATTCCACTTTTCCAACCTTTAAAA  
TGAGATCTCATTCAAACAAAATTGCCACAACCATTTGGAATATGTGTTTAAATTAGAC  
AGTAATGCTTTGGAAGTGGAATTAACATTTCAGAATAATAGCTGTTAGGCCGGGCTCA  
ATGGCTCACGCCTGTAGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTTCGAGA  
CCAGCCTGGCCAACATGTTAAACCCCTATCTCTATTAATAAATACAAAATGAGGCATGGT  
TGGCAGGTGCCGTTGTCCCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACCA  
GGGAGGTGGAGGTTGCANTAAAGCTGAGATTGCGCCAGTGCACTCTAACTTGGGCAACAA  
GAGTGAGATTCTGTCTCAAAAAATAATAATAATTAATAATAATAGTTGGTAGATTGAAC  
ATAGAAAACACGTTTTGTAGATAAAAAANTGGCCAAGTNTTAGCCACCTTTGACAATTTTT  
TAAAA

## Sequence 1059

CCCTTAGCGTGGTCGCGGGCCGAGGTACTTTAACAAATTAAAAACAAATTTTAATTTAAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAAGACTTTAA  
ATCCTCACGTAAACACCACCACCTGCAAAGTATTAATATCAACTTTTTCAACAAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAATTAATAAAATGTGTCCCTCCTCTTAGA  
TATCTATAATCTAGGAAATGAACACATTCTTTTCAACACTAACTCCATAAGAACAGG  
CATCAGATCTATCTTATTTACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATA  
ATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAGTG  
AGCAATATCTCTTAAAGAAGACAGACTTTTAAAGTTAACAAGCAAGTGATGTGTTATTC  
AGTAGCAAATAAGATTGTTTCTAATGTCATAATTCAATTTT

Table 1

## Sequence 1060

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAGTTACCAAAACCCATCCAACATAAAAAATTTAA  
GCTTTTTGCATTTTAGTGGATGCAAATTGTGTCTTAGTAAGAAGAACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACA  
TGTATAACTACAGTAATTTTAAAACTGTTTTCTTGCATAAGTATAGAGAAATGTACCTC  
GGCCGCGACCACGCTAAGGG

## Sequence 1061

CCCTTAGCGTGGTCGCGGCCCGGAGGTACTTACGCTTTATGATCTTGAATATTTTCAGNGT  
NTAAGGAATCTCTTCCTTCTTTGATCTCCACTGCATGAAGAACTCTGTTGCAGGTGTAA  
CAAGGAAGTTTTGAAATACAAAGCCAGAACCTGCCCCCAAAGATCTGACAGTAGTANAA  
GGAGATCCATTTTGAAGAAGGTATAATGGCAACC

## Sequence 1062

CCCTTAGCGTGGTCGCGGCCCGGAGGTACTTTAACAATTTAAAAACAAATTTTAATTTAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAGAACTTTAA  
ATCCTCACGTAAACACCACCACCTGCAA<sup>A</sup>GTATTAATATCAACTTTTTCAACAAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAATTAATAAAATGTGTCCCTCCTCTTAGA  
TATCTATAATCTANGAAAATGAACA

## Sequence 1063

CCCTTTNAGCGGCCCGCCCGGGCAGGTACACAAATTCTAGGNAATCTAAATTTTAAAT  
GTCTAGAATTTTTTTCTTTTATGAACCANATCACATTTCTGGACATGCTAACCATTTAA  
ACGGNGAAGCTTCAGCTTGGTTGTTATTCTTCCATTAACTGTTTCAGAAACATTCAGGC  
GGCAGATAACTCATTTGGATTGTTAAGAAACACCAGGTTTTCCAGATGCTACATTAAACAC  
CTCATAGAAGTGGTCTTTCATATGTATGTTATGNATGATGTNAACCATAATATATATGNN  
TAAAATTTTAGTAGGAGTTATCCTTTGCTTTTTATAATTTCCAGTTTTNCGNNAACGTA  
ATTCCTTTTTTCGGATTCATTTTTTAGGTAAAAATGGTCCCCATTANTTTAAAGGATAA  
AAATAAAGTCTTACTTTTGAGTCTTTAAGNCGTNNAATTTTNGCCANTNNTGTTCCCGTT  
GGAACNAGAAAGGTNNTAAANCCNTAAATTTTTGGAAATTTAAACNGCCNTTTNAAAGNN  
ATGGAAAGATCTTCGACCACCNNGNTTTTANTAACCAACNTAAAANTNGAATCCNGAA  
NNAANGGGGGGGGNGGTACCCGNGGGNTTATTNAAACCTTTAGNANGNTTTTNTTTTTNT  
TCTGGCTTTAAAAATTANTGNNNTTTTGCNNTAAGGGCCAGGAAACNTAGGGTTTTTGA  
AAAANCNAAAANTGGCCTTNGGGGGCTTNTTCNAAACCCGGGGCNCCAAAAANAAAAAA  
AAAAAA

## Sequence 1064

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTACTACAAGCAGCAAAAGGAAGCTCTAGAA  
CAAGGAATTTAAACACAGTGTTTGTTTCCAATCGCAGAAAGAGGCCATGAGCACCATATGTG  
TGTCAGGCTTATCATCTGAACCAAGAAAGGCCAATCCTTCACCTTTCTTATGACTCTTA  
TAGGCTGCAATATTTCACTTGGCCATAAACAACCTTAATATCTCACACCTAGTAGTATTCA  
GTGACACAGAAAGGGAAAGAGAAAGGATGAAGAAAAGAGGAAAGAGAAATAATTTNCCCA  
AGATACAAATTTAATATTCTTTCAAAGCATAAGAACAATTTAAAAATATATTTCTCTGNT  
GNAAGTGGAGGATGGA

## Sequence 1065

CCCTTAGCGTGGTCGCGGCCCGGAGGTACATTGAAACAATATAGTAGTCTTCCCCTTTACAA  
AGCTGAATTTAAAGTAAAGTGTGTGTTGGGAATAATAGGGGAATGTGGATTGTAGCTGTT  
TAATAAAGATTTAGATACATATAAAATTGCTTAAGGCCAGGCGCTGTGGCTTACGCCTAT  
AATCCCAGCACTTTGGGAGGCTGANGTGGGTGGATCACCTGAGATCAGGAGTTCGAGACC  
ACCCTGTTCAACATGGTGAAACCCCATCTGTACCTGCCCCGGCGGCCGCTCGAAAGG

## Sequence 1066

CCCTTAGCGTGGTCGCGGGCGNGGTACCCACATGATCCCAAAGAGGAGGGGCCCTGTAGA  
AACAAGAACCAACCAACAAAAGCAGTGNTACAGGCACCATGACAACAAAAGGAGTTTT  
AAAGTGCATCTTCAAATAGCACACAATTTTCCAATTTAAATAGTTTGAATGAATCAAAN  
GGGAANAAAGCATTANTTAGATACAACCTGAATTTCTCAAAAGTATATTANCACAGCCTAC  
AAATAAATCCTTAAATGTA

## Sequence 1067

CCCTTAGCGGCCCGCCCGGGCAGGTACCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATG  
AATTTGCANAAGGATTAAATGTGTGTTCTTATTTGTGCTTTGTATTCTCCATAANTAG  
TGTGTTGGAGGCTATTAGAATAGCTGAGAGGGTAAACATAAACACATACGTANGAGCCT

Table 1

GACATAAACACATAGGTAGGAGCCTGCCATAAGCACCGTAGGTAAGAACTAAAAGGGTGT  
GTTTCCATTTTCANGNGGTCCAGNCCTTCCTTNCATACTCTNAGATGACAAAAACACAAAG  
TTGCTGGAGCTCACACAATAAGTAAANCCAGAAAGTTTGGACATGGAGAAACATTT  
TT

Sequence 1068

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATATTAGTGTAGCAATTTTCCAAAAGCCATT  
CATCTTAGAGGGCTAAATGATTTTACCTTATCAATTCCTCCTGTGAAAAAATATCTCTAA  
AGAGGTTTTCTGCTGGAAAAATATTGTTGCTGTACATTGATATGCCAACAAAAGCTAAGC  
AGGGAAGTCAGGCCAAGAAATATCTNCCTGCAAGAGAAGGCATCGCACATGTATCTCTCC  
ATGCTATTTAAAATTTGCATTCTGCAACATAGAAGGGATAGGCCATGCTGCAGAAGCCAG  
GTCCAGGAAAACTGCTTTCTTTGGCCNTTACACATCCTTTTGGAGAAGATGCTGGTGAA  
AGCAGCAACTACCATCTGCCTCCTGTTGACTTAAAGTGAACAGGTGGAAGGGANGAAGGA  
AGGGCATCGCAACATCATTCTATTATCTCAACCTTGCTTTTCTCGG

Sequence 1069

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATT TTTAAATTGTAGGGATGTCCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATAACCAGAAATTTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG  
AAATCAGATATTTTTCTATTCCATATCTTAACTTTTCATGTTAAATTCTAGTTCTGACAA  
TGTAGGGTCTATTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATG  
GAATATGTGTTTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAAATAGATTG  
ATGCTTCAGAAACTTAACAGAATATTATCTGCAATTTGGCATAAATGCATTTTTCTTGGG  
GAAGTTTCCATGGTCAAATTATTAGTCATTGCAAAACAGAAAAGTTTGACACCTGGAAA  
TGCAGACCCTTTTGCTT

Sequence 1070

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTATATTAATGAAATTTATCTAGTCCTTGCA  
AACTTGTGCCTATTGATTTTCATTAGTGTAAGTAAAGAGAGAACTTCACACTGACATT  
TATAATTGTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCAG  
GAAGTCTTGAGGCCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCA  
GCTACATTTTTGGAAAGANGGAGAATTAAGTTTTTGGTG

Sequence 1071

CCCTTAGCGTGGCCGCGGCCCGAGGTACCAAACTGAAAAAGATTGTGTATCCAAACATT  
ATTTACATAAAATGTATTTTGATAAAGTAAATTCCCAAACCATGGTGCTCAGAGGTTGT  
AACAGTCCATGTAAGTTGAAGAAAAAGAGTTATCAATCAATACGTGACTATCAATCATTT  
ATTTAATCATTATTTAGTTTTACATATCTAGAAATTTAGTAGAAGAACCAGCCCTTCA  
TAAANGTGGCCATTCCCTATACCTGCCATCGATTACATTATTTTACT

Sequence 1072

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTT  
CACTCTTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCC  
TCCCAGGTTCAAGAGATTCTCCCGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGT  
GCCACCATGCCTGGTTAATTTTGTATTTTGTATTTAGTAGAGACAGGGTTTCTCCATGTTGGTCC  
GGCTGGTCTCGAACTCCCGACTTCAGGTGATCCTCCTGCCTTGGCCTCCAAAAGTGTCAG  
GATTACAGGCGTGAGCCACCACGCCCTGCTTAAGTTTTAATAAGATCTCTTGGCAACTTT  
TTACGACTGGCAACTTAGGTCTCACAACACAGAAAAGCTTGTCTTTAAGTATATTGTCT  
TTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTTACTTTATAAATGCAT  
GCACTGAGAGAAAAGATATTTGAATGATATACACCACAATGTTAAATTAAGTNGATTGT  
TTCTAAGTATTGGCACTATGGNCAATTTCTTTTTCTTGGTTATGCTTTTCTGAGTTTTC  
AAAC

Sequence 1073

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT  
GCACATAAAGGGCATTTTAAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG  
GTAATGTTAAACAGAAATCAAAGTTATCAGTTTGGCTAGCCAGACACAGTAGTATATGC  
CTATAGTCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTCACGTTTAGCC  
TGGGCAGCATAGTGAGACACTGTCTTTTATAAAAAACAGCAAAATGATCAGTTTGGG  
ATAGTAAGACAAATGGCTTTCTTTTGTAGGAATTTCTCTATTTAAAGGACTTTTAGGCC

Table 1

TAGAGTGGTGGCTTACGCTTGTAAATCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCA  
CTTGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTANGGAGACCCTGTCTTTNCAA  
AAAAATTCAAAAAATTAGCCCAGTGAGGGGGGNGCTTGCCTGNGGGTCTAGCCACCTGG  
GAAGGCTTGGGGGTGGGAANAATTAAGTGGGCCANGAATTTGANGGTGTAGTNGAGCCT  
TTGATNCCCCGTNAACCGAGTANAAGACCCTTNTTTNTTNAAAAACTTTAAANTTNAAC  
NTTTTTTA

## Sequence 1074

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATC  
AAGATCCGACTGCTAGGAGCCCCGGCTTCTCCCTGACCTGCCCCGTCTCCTACACCCTCT  
GGTCTGCTCCACACTGGTCTAATACTGGTGTCCACATTCCTCTAACGTGCACAACAC  
AGTCCTGCCCCGTGCTTTTCACCTCCTGTCCATTCTCTTATAACG

## Sequence 1075

GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTCTTCAAAGAGGATA  
AACTTAAAGAAAATGACTAGATACACATCAAATTAAGCTGCTGAAAACCAAAAACAAAGA  
AAAAATTTTGAAGCAGCTAGAAAAAATTACACACCACACAGAGGGGAATAAGGTTTA  
CATTACAAAGATTTTTCACCAGAAATCAGAGAAGTGAAAAGACAGCTAAATGGCATCATT  
GAGGTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAATATCCTTTA  
GGAATGAAAGTAAATAAATACATTCTCAAAGAAAAACAAAGAGAATGTATCCCAGCAG  
ACTGATCTGCTAGAAAAGCTAAGGTCAACATTAGGCTGAAAGGAAATGCTGCATCTTCAG  
GAATGAAGAAAGAGCAATAGAAACAATAAATATATAGGAAAACACAAAATAC

## Sequence 1076

CCCTTTGAGCGCGGCCGCCCGGGCAGGTACTTCACTGATTTATGGCAAGTCAGCCAATCCA  
TCAGTGCTCAAAGCTCCTTGTATTGTGTCAGGNATGNNTNNCATTATTTGTCACTCATTAG  
AATTAACTGCCAACTAGTAGCATTGTGTTTGTGTCTGATAGATTCTTCATGCAGAAAGA  
ATAAGTAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCATTACTTTTGTCTGCA  
CAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATAACAAAATCCACAAATTCAGATT  
TAAAAAAGTAGGTCTATATAAAGCCTTATTTAATATTTGGTATATTTTTAGGTACCTCA  
TTGGGNGNCCCTTTATNATGCCAAGGCATTTTTTGGGGATCCTGGGTTTCTTAATTAATA  
ATAGGAAGAAAATCTTAACATTCNCGTGGTGGATTAAGAAACNCCNCCCCACCCTNTTTT  
TTGGATTAANGNGNTTATTAAGTAAAAGCTTACCGTTNAAGTAAGCTTCCCGAAAAGAA  
AATNTTTA

## Sequence 1077

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTAACCATGACTTACTAGGTGTTATGATGA  
AGGTGTATGTGTGTATATGTGTGCATGCATGTAGATAAGTGTGTGCATTTGCACACAT  
AAGAGTTTTAAGCTGCTCCTGTCAATTTATTGATGGTCAAAGGTTTCTTTGGCTATTGCT  
GGACTCTTAAGATTGCTTGTAAATGTCTTTTTGTGTTGTTGAAAATTAAGGGTGTATA  
TTAAAGGTAGTTTTTACCCAGATCTTATATGTGTGATAGCTCACGTCTGTAATCAGAAAC  
CTACTGTTTAATGGCCACCCAATTGCCATTAGCTTCCTAGAGGGTGATTTAATAAATCTAT  
CTTCTTTAAACTCATTTAAATTAAGAGACATGTTTGCATACAATGGATTAATGACGTT  
TTCACACTAACCCCAAAGTCTGCTTGCATTTCTTTGTAGGCCTAACATTCATTTCA  
ATGCATTGATTATTATTGTTGAACCTGCATTAATTACATCGNGCATATATGGACATACAA  
TGTCATCTGCAGAAATTAAGGATTTTTTA

## Sequence 1078

GAATTGGGCCCTCTANATCNTTCTCNACCGGNGGCCANTGTGATAATTCTCCTNTAATNN  
GCCGCCCGGGCNGGTACAGACTTTNGTTCCTTTGCTTTTATTTTTTTTTTTTGCATN  
GATATGAATAGTTTCACTAATTCATTGATGTTCTGTAAACNTTCTTAAACTTTGTTT  
TATGGGATTATCAGAGTAACAAAATAATGTAGTCCCTTTATGGGACTATAAGTAACCTAA  
TGCTTTTCTTTCCCTATTTTCATATCCCCATATTTGGTGCAATAATTTAATTCA

## Sequence 1079

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCTCACATTCATGGGGAGGAAAATCAGGGCC  
TGTCTTTAGATAGGAGATGTATCAAAGAATTTGTGGACATATTTTAAATCACAGCACTA  
CTCTTGATGTACCTGCCCGGGCGGCCCGCTCGAAAGG

## Sequence 1080

TAGGGAGTCGACCACGCGTCCGCTGCCTCGCCCAATGGGCTCATAAACAAAGTGGCCATG  
GTGGCAGGGATAGACTTTCTCAGCAACATGGACTTTCACTACCAAGGCAGACCTGGCTA  
CAGCCACTGCTGAGTGCCCCATTTCCAGCAGCAGTGCCCAACACTGAGCCCTTGATATG

Table 1

GATCATTCCCTGGGTGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTT  
CCATCATGGAAAGGGCAGAGGTTTCTCCTCCCTGGAATGGACACTCCAGATATGAGTTTG  
CCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGATTACGGAATGC

Sequence 1081

CCCTTAGCGTGGTCGCGGCCGAGGTACACCGATGTGGCTGACATTTGGCTGGAGTCTGCT  
AAGATGTTTTCTTATNCTGGATGGACGCAGACCTGTAACACCCTGTTTTCTATCTTCTCC  
ACCATATTTTTCATCAGCCGCCTCATTGTTTTCTTTCTGGATTTTATATGGCAGCTG  
ATCTTGCCTATGTATCACCTCGAGCCTTTCTTTTCATACATCTTCTCAACCTACAGCTC  
ATGATCTTGCANGTCCTTCACCTTTACTGGGGTTATTACATCTTGAAGATGCTCAACAAG  
ATGTATATTCATGAAGAGCATTCCAGGATGTGAANGAGTGATGACCAAGGATTATGAAAA  
GGAAGAGGAAGAAGGANNAAGAAAGAAG

Sequence 1082

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNGCTGGTTA  
ACAAATATTTTAATTCATTAATAAACTTAAAAATTCATGCTTAGTCTACACAAGTTT  
AACTTACTTTAGTCACTTAGTGAATTGTGAATTGGCTCCCATAGTGGTCAGGANAATGT  
ATTTGGTGTANAAACCAATAAATCAAGCTATTATCGCCTTGAGTACCTCGGCCGCGA  
CCACGCTAAGGG

Sequence 1083

CCCTTCGGCCGCCCGGGCAGGTACTGGGAAGTGCACCTGGACGAACAAAAATAAAAAA  
AAAAAAAAAAAAAAAAAATTAATAAAAAANGGAAAAAAAAAAAAAAAAAAAAAAAAAT  
NNNTTGGAAAAANAAAAAGGAAACANNANNGCGGTTTTTTAATTTTNAANCATTNN  
AAATTTTTTTAANNANNCCNTTNAANNNTNNNTGAAAATGTGANNTTTNNNNNGAATNG  
ANCNTNNNTCTTNTNTGGNTGATTTTTTATGTGTTCCAAATNGTTTTTTTTANNGAANA  
AAAATTTTTTTTTNNGAAGNTANACNTNNATTNAAANNATTTATNCNTNNTAAAAATTN  
AANAATTTTAAATNNTTAATGGNNTTNAANTTTTAAATTT

Sequence 1084

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTTTCTGAAATGTCCCCGTGATTAAGTT  
GTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGA  
ANAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTCCTGTGTCC  
CACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAACCAAAATTAG  
GAATAAGGATTGAGAAGAAAACTCAGCAAGGGTGATGAATGAGTTTCAGCTCATTGCTGG  
AGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAANGCTATTCCNGGGACCT  
TTTGAAG

Sequence 1085

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG  
TACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTTTGGAGAAAAAT  
TTATTCTACTTCTAGAAATTTCTACTACAAGTGCTTAGTTCTTGGTTGGTAGATGAAG  
TGAAATCAAAATTGGATATTTGGAACATTAAATATGGGAGCAGAGAATCTGTGGAATTAT  
TGCTGGAAGACTGGCATAAATTTATTGAAGAAAAAGAAATTCCTAGCTCGACTTGATACTT  
CTTTTCAAAAATGTGGAGAAATTTATAAGAAATTTGGCTGGAGAATGTCAGAATATTAATA  
AACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAATATATATAATGTGA  
AGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTACTTATGTGGAAAACCTTCGCTTAC  
TAAGGGCTTGCTTTGAGGAGACCAAGAAAGGAAGAAATTAAGAGGTACCTGNCCCGGGC  
GGGNCCGNTCTAAAAGGGC

Sequence 1086

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTGGAGAC  
AGGGTCTCGCTCTATCACCTAACTGGAGTGCACCTGGTGAATCTCGGCTCACTGCAACC  
TTCACACCCAGGCTCAAGTGTCAATCCTCCCGCTGAGTAGCTGGAACCACACGTGCGC  
ACCACTAAACCCAGCTGTTTAATACACCATTTTAAACCAAAACATTAAGAAAAATATAG  
GAACAGTAAGTAGATTCAATTTGTAACAGACAAGCTTACAAGTTTCTCAAATATGAAA  
GTCATACTAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCA  
CAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATAT

Sequence 1087

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
CCAGAAGGGCAGACTTCAACCCAGAAACAACCTGTGAATTGTGATGGAGAGATGGGCTCTA  
GTATCTGAACAACGAAATTATACTTATAGACTACTTTCTTTTCACAGAACAATGAGCTT

Table 1

TCTTGCGCTTTTAACAAAATTATCATTGAAAACTACAAAATTAAGATCACCCATAATCCCA  
GCATTCAGAGGGTTAATCTTTTGTAAAATCCTTCCAAAAGTCTTAAATGTGTTTATAT  
GCCTTTTGGAAAAAAATTTATTTTATAATCATTTNGGATTTACAGAAAATTGACAAAGA  
TAGTACCTCGGCNCGCGACCACGCTAANGGCGAATTCC

Sequence 1088

CCCTTNCNAGCGGCCGCCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCCATTCTTT  
TCATCATTGGAAGCAACAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAAGTTATAAACTCTAGA  
GTGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCT  
TCCAGTAATCAAAGTAGAGCTCCTCTGCCTTGTGTAAGTTGCTATAAAGTATTGACTATT  
AGAATGTCTTGAACCTTTGGTACTGTGAGCCAAGTCGGTGCTCAAAGTATATTTCATAGT  
CTCAATTATATAGTAATTTAAGTTCTGAAAAATAGGTTCTGGCTTTGCTATGGAATATT  
TTGNGAGTATTTACTTTGGAA

Sequence 1089

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAA  
GGCAAATGAAATGATGTAATACAATGAACTCCTCAGAAAAATAAGCTCTGTAAATCTCAG  
ACTGCCTGTTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTTAGAGAAAAATGA  
TGGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACTACAAGAG  
AAATACAGTTGGCCCTTGAACAACACAGATTTGAACTACATGAGTCCGTGTACCTCGGCC  
GCGACCACGCTAAGGGCGAAT

Sequence 1090

CCCTTTGAGCGGCCGCCCGGGCAGGTACCGTGCAGAAGAAGCTACCAAACAGCAAATAT  
GGAAATAGTCAGTTTTTTTTTTTTTAAAGCCTCAGTAGAAGAGTGCAGAGTTACACTGTC  
CTGTTTGGGTGCCCCCTCCCCCTTNCGACCTAAGTGCTGCCAAGG

Sequence 1091

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTGCAGTTTTCTAAGGGCTCTTAGTGCTTTT  
AACTAGAAAGGGGTTTTTCGTTTGTGTTGTTTTAAAGGGTCCCTAGTGCCTCTTAC  
TCCCTTCTGTAAATCCTGTGTAAATGACAAAAGTGCACAATTGATCATTGTAAGTTC  
TAGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 1092

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGATCTAAAGTTGGGGTGGGAAGGAAGG  
AGAAAAGGGGATTGATTTTAGTGGAAGAACAAGAATGTTCTGAAATTGATTGTGATGGCT  
GTATAATCCTGTGAATATACTAAACATTGAGTTGTGCACTTTACATGAGTGAATTGTGT  
GGTATGTGAATTTATATCTCAATAAAGCTATTTTTAAACGAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGGTNCCTCGGCCGCGACCACNCTAAGG

Sequence 1093

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGGTACCTGTATCTTGATCACCAGAGAGCAC  
ACCAGCCTGGACAGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGG  
TTCCTTGCCATTGAAGAACTCTTTAACCAGTTGCTGAATCTTTGGAATTCGAGTCGAGCC  
ACCAACAAGAACAATTTTATCAACCCGCGTACATGCTAAGACTTCACCAGTCAAAGCGAA  
CTACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACA  
GCGCAATCCTATTCTAGAGTCC

Sequence 1094

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGCCAAAGACTTCGCCATAACTTTTCAAGT  
TAATTACACCTGCTACTGTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAG  
GGGTGAGAAGACAAAACACTGTAACTTCATTATACCTTTGACAAAGTAATATTATGTG  
ACATGATGTGTTTTCCCAAAAATATTAGAGCTGCAGATTTAGCTGATTCAATTTATGGGA  
CAATTTGTTATGTGATCTAACAATTTGGCATATAATCTAGAAAGCAGCTTTATGATCAA  
AATTGATTTTATATATATACATATAAT

Sequence 1095

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAC  
TTCAAATAACATTTTTATTATATAAAAATGTAAAAATCCAGCAAAACCAGAAATACGGA  
ATATATTTTTCTGGGCTTTCACATTTGTTGATTTTTATTTCGCGATCTTTTTCAATACAAT  
TTACACCTCATCCCCATTTCCAGTCTGATTATACAAGNGCTAAGTGGCANAAAGGTCTG  
GAATAAATACATCAAAAAGAAGAGGCAAAGCTGTGAACTAAGTTGCA

Sequence 1096



Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATCTGATACAAAATCTGAAAGAAAGAACAG  
TCTTGTAATCTTTACATACTTGTAAGAGCATTTCTCAAATTTTCTGCTTACTTTCAAATA  
AAGTTCTTACTGTCTAATATGCTCTCTTTAAATTTATTAAGTATTTTAAAAATACCCTGG  
CTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATTCTCTGTAAGGCTGTCTTAAAAA  
AAAGAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1097

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCTGCAGACATACTGAGTGTACCCTTGAA  
GAGAGTGGAGTGGCTTTTGTAAAGAAGTTCAGGTACATGTCCAGGGGCCAGCCTCTGGG  
CCAGTAAGTCAAGTACTCTTTGTGGCTTTCTTCATGGCTTTTTTTGTGGGCTGCCACGC  
CCATCTTTATCACCAGAATGAGGAAGTCTGGAAGTTAACTGCACCATCAGTGTGATAT  
CCAAGTCTTTGAACAGACGTCTGCACCTTTTCTGATATACTGAGGACACTCGGTCT  
CTAGCAATTTCTTCAGGTATCC

Sequence 1098

CCCTTTGAGCGGCCGCCCGGGCAGGTACTACCATTCATACAATGGAATATTACCCGAT  
GAAAAAATAAGTTGAACACATGCTACAACATGGATGAAGTTTGTCTATAAGAACATTGA  
AAAGAAATGCCAAAAGAAAAATGAGTTTGTAGCTCAAATTTTTTAAAGAGGCCTAGCCTG  
CTCAAGATATCCTGTTAAAAAANAAAAAAGTCTTCCCATATCTAAGGTGAAA  
ATAAAAAACATTTTTTAAAGTTNAATATAAAGAATGAAATAATTTCAAGGTCAAGTTTAT  
TATACAGAAATTATTAATGGGTGG

Sequence 1099

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGTCTCCATTCAAGTGGTGGCC  
GGGATGAAGGCCGTGTTGGGGCTAAACCACTCTGGAATTCTGTCAGCAAATTCCTCGC  
TGTGTGAAGTGTGAGCAAGCCATTACCTTTCTTAAGCCATTTTCTTGATATTTACAGAG  
CCTCACCAGTATTCAACGAGAACATGTAAGTGAAGTGTTCACAAAATGCCTGTGTAAT  
AATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGCAGTCTCTGCCCTTTAATGTACCT  
CGGCCGCGACCACGCTAAG

Sequence 1100

GGGGNCCCGGGGAAAAATNATTTTGGGGGGGGGGNCCCCCCCCCTTTNCCTTTNANNA  
NNTTAAAGGGCCCCNNTTGGGNCCCTTTCCCGGAANGGCCCGGGGGGCCCCCCCCGGCC  
C  
CCCAGGTTNGGTTTGGGANTGGGGGNANTTANTTTCTTTGGCCAAGGAAATTTTCCCG  
CCCCCTTTTTTCCGGAAGGCCGGGGGCCCGGCCCGCC

Sequence 1101

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGTTGGCTAGGAGCTGAGCTTATCACAACAA  
ACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAATTTAT  
CTGTAAATCTTGAAAACCTAAAAATTTACGCAAGAAAAGACATCACTTGTCTACTGTAA  
CATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCTCTGCCTTGGATGATACAATCA  
CAGCATCAAACTGCGATCGCTTTGGATATTTCTGAGATCCTGTGGATGAGATCTTC  
AAATCCCTCCACTCTCTCAACTGCAACTCTGAATATTAAAGTGAATCAGGAGAGCCCA  
GAGGTCCTTTGAATCATCTCTACAGAGAACTGAAATTTCTTCTTTGGCTGATGGTT  
TGAGGACTGGTGTCACTGAATGGCTCGAGCCCCTGGAAGCCAAAATCTGCTGTTGAAGT  
GTCAGGAATTTCTGAATGACTTAAATAAGCTGGATGGGATTTGGTGATTCT

Sequence 1102

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGATTCCCCAT  
GTTTTCTTCTAGAAGTTTACAGTTTACGATCTACATTTTGGTCTATGACCCATTTTG  
AGTTAAATTTGTGAAGGTATGTTATACATGTGGAAGTTCATTTTTTGCATGTAAATA  
TCCAATTGTTCAACACCATTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGC  
GCCTCAATTAATAAGTCTTACTCTATCTGCATAAGTCTACTTCTGGGCTGTCTACTCTC  
TTTCATTGATCTGTATGTCTGTCCATTTTCCAATACCACTGTCTTTATTAAGTTTCT  
ATAGTAAACCTTGAAATCATAATTCTATAGTAAGTCTAAAAAATCACACAGGTTGGAAA  
TGCACAATTAGTATGCTAANATCAGAGCAATCTTGTGGTTCANAATGGTTTATGGGAGA  
AATATTAGCNCAGTGNNCTTCACATGCCTCATTGATGATAACTGGAGCTTAATGTGAA

Sequence 1103

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTGTTAGCGTCTGCGTGTGATGGAAGTTGA  
CAAAAAATGGCATGAAAAGATCATGATTGGATTTTCTTTTAAACCTGCCCTTCTGTAAAA  
AATAGTTTATATATTTTTTAAATTAGTAGGTATGTGTGGCTTCTTTTTTCTTAACATTCC

Table 1

CAGCAAATTTTTGCTGCTAAGACTATCACTGTAAAGTGAAAATTACAGGGAAAAATGTG  
ATGAATATACCGTAACTCAAAATGTGATATTTCTTAAATCACTCTTTTATGCTTTAGG  
AACTGGTTGGTCTCCACTTTGATTATTAGTGTAAGAGCCTGAGTATACGTGGATTTCAT  
TGTAATTTAACTCCTTGCTTTTACTTGGGGCACCAGGGGCCCTGGAGGGCTTCCCTA  
CTTTCCCACTATGTTAACAGGTAAATNCTGATTTTATGCCTTAGTTGACTTATTTTT  
ANCNAAATATTAGAAGTTATTGCTTTTAAATGTTAATGTGGGACTGAAATTTTCATCT  
TTTNNTTNAGAAATCTATGAAGTGTATTCAAATAACGTGGGCCTAAAGGCCAAAGGNGGG  
TATTTTGGNAATTCTGAAATTGNTTGGCATCTGGNCCAAAAACCTAAANTANTCCCCGT  
GGCCCTTTTTTTTTTTTTTTT

Sequence 1104

CCCTTCGAGCGGNCGNCCGGGCAGGTCCTATAGGGCTCGAGCGGCCGCCCGGGCAGG  
T

ACTTGCAATGTTTTGACATTAAGAGAGAGACTATACATTACAGAGGTTGGGAGCTTCTG  
TCTAGCCTGTTGTCCAAACTGCTTATAAAATTTAGCAACTAATTTTCACTTTTGACAAC  
TATTTAATTCTAGAAATAGGTTTATAAAGATTTTCTTAAAGTGTTATCTATCCTTCCA  
ATGACTTATTATAAATTTAGAATGTATTTCTATAGGGTGGAAAAATCTCCTTTAGTCAG  
AATTGAACAGTTTTCATGAAGAACATGTTACACCATGTAGAAACATGGGTACCTCGGCCG  
NGACCACGCTAAGGG

Sequence 1105

CGCCAGTGTGATGGGATATCTGCAGAAATCGCCCTTAGCGTGGTCGCGGCCCGAGGNACT  
TTTTTTTTTTTTNTNTTTTTTTATATGGCAATATTTATATTTTGTCAATTC  
TTGGATAAAAACCATTTGAACAATGTTGGTAAGGNGTTATTCTCATAAAAACCTCTTTN  
AAAATGAAGGTTTTNTATTTTCCACAAAAGTTAAA

Sequence 1106

CCCAATTGGGCCTTTNGATGCTGCTCGAGCGGCGCAGTGTGATGGATTCTGCAGAATTCTG  
CCCTTAGCGTGGTCGNNTTNGAGGTACNACCTGCATGGTGTATGCACACAGAGATTTG  
AGAACCATTGTTCTGAATGCTGCTTCCATTTGACAAAGTGCCTGATAATTTTGAAGA  
GAAGCAAACAATGGCGTCTCTTTTTATGTTCAAGCTTATAATGAAANTCTGTTGTGAC  
TTATTAGGACTTTGAATTATTTCTTTATTAACCTCTGAGTTTTTGNATGTATTATTATT  
AA

Sequence 1107

GATATCTGCAGNNNTTCGCCCTTTCGAGCGGTTCGNCCGGGCAGNTTCNTGAGATGTTACA  
CTAGTATTTTGAAAAAGTATAAAAATGTGGCCGGNCGTGGTGACACATGCCTGTAATCTC  
AGCCACTTGGGGAGGCCAAGGGCANGGAGAATCGCTTGAACCTGGGAGGGCGGAGGTT  
G

CAGTGAGCCAAGATGCAGCATTGCACTCCACCTGGGCAACAAGAGTGAAACTCTGTCTCA  
AGGGTAAAAAAAAAAAAAAAAAAAAAAAAAGTACTTTTTTTTTTTTTTTTTTTTTTGGG  
TCATTAGTTATTAATTTTACNCNAGTTAACACTTGAAAAATGAATGATATTTAAATCAT  
TGTCATTACTGAGAAGCAAGAACCAATGAGTGAGCCCAAAGGAGTCTACTACCATACC  
TATTAAGGGTAGGGAAAGGGTTAAGT

Sequence 1108

CCCTTCGAGCGGNCGTTNNGGCAGNTNCAATGAAATGTCTTTTAAAAAAGTTTGTGT  
AATTGTGTATGTAATTCTGACAGTAATTCAAACACAAAATCACACATTTTCCCTAACTT  
CCCATGTTCTGGATCTGGGGACTGCAATATTACAGAAATATGCAAAAAAAGTTTAGTGC  
TCAGAGATAAATAATTTTNCCTTATTTCAATGCATCAATGCGCAAAAATTTCAATTCAAAA  
AAGCCAACCACTGCTATATGCAAATAAATAAAACATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAATGTGTGGCACCCTGCACATACNTGTGCATATGTGTATGCAAT  
GCCTATTTAAGAAAAAAGGTGTCTTGATGAAATGATTTTGAAAAATAGTCACTGACACAC  
ATTATATACAAAACCTTTTATATAAAAAA

Sequence 1109

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGGCCTTTAATCCCATCTAAACAATTG  
CTGTTAACGAAACTCAAAAACAGAAATACCTATATTTCTCGCTAAATCCAATTGTTACC  
TATGATGAGTAAAGACACTAGATCTGCAGGTCTAGTACAATCTATACATAAAAGGCCCT  
CAGATTTGAGGCACAAAAAAGGGCAAAAAAAGAAAAAAGAAAAAAGAAAAAAGCTTCT  
ACACATTTCTCTTTTATCTGCAATATGAGAAGGAATCCTTTCTAACTCTAATAACATA  
TTAACAAGAATTAAGAACACGATTGTCGGGGAACCTCAGATGTTGGCAAAGCTTAAAAATA



Table 1

AAAAACAAGGGCTGGGTGCAGTGGCTCANGCCTATAATCCCACACTTTGGGAGGCCGAN  
GCAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAGTGAGACCCC  
TATNCCTATCTTNTNCNAAAATTTTAAAAATTAGCTGGGCCAGTGGTGGTGGTGCCTGT  
AGCCCCAGCTACTTANGANGCTTAAATGGGGAGGATCCCTTGAGTNCAGGANTTTGAAAA  
TTGCNTGAGCCTTTGATCAAAACTTTACTTTAACCCTGGGGTGGACCANAACCAANGGGG  
TTTTAAAAAAAAAAAAAAAAAGGGAAAAAAAAANANAAAANGGGGAGGTTTCCCCCTTGGGCC  
CCCCGGGGGGNCCGGGGGCCCCNGGNTTTTTTTGAAA

## Sequence 1110

CCCTTAGCGTGGTGC GCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCC  
AAACTGAATGCTTTTAAGAGCACCCAAGTCAACTCTTGAGTGCTTTGCTGCTTATAAAT  
TTATTCCACCAGATACCCTANATCATCTCTCTCAAGTTCGAAGTTCACAGATCTCTAGA  
GCAGGGGCAGAATGCTCCAGTCTCTTTGCTAAAGCATAGCAAAAATCACCTTTGCTGCT  
CCAGTTCCCAATAAGTTCCTCATCTCTGTTGGAGACCACCTCAACCTGGACTTCATTGCC  
ATATCAAGATCGGCATTTTGGCAAAGCCATTAGCAAGTCTCTAGGAAGTTGCAAACTTT  
CCCACATTTTCTGTCTTCTTCTGCACCCTTCAAACCTATTTCAACCTCTTCTGGTACCT  
AAGTTCCAAAGGTACTCCACATTTTCAGGTATGGTTACAGGAAGCAACCCGNTTNTACCG  
GTACCTGCCCNGGGCGGGCGNTCGAAGGGCGAATTCCAACACACTGGGCGGGCGTTACTA

## Sequence 1111

CCCTTAGCGTGGTGC GCGGCCGAGGTACTTTTTATGTTTTAATTTTTGTAGAGAAGGGC  
TCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCTGGACTCAGGTGAAGTGATCTGGCCA  
CCTCAGCCTCCCAAAGTGCTAGAAATACAGGCGTCAGCCACCACGCCAGCCTGNAGCCT  
ATTTTTATAAATGAAGTTTTATNGGAACATANCCATGCCTGGNCATTTACATACGTCTAT  
GGCTTCGTATGCCATATAGCAACAGAATATATTAACATTTACTACCTGGCCCTTTGCAG  
AAAATGTTTGACAGCTCCTGTGNATAAACATAAAATCTGCCAAAAAATGCTGATATTAC  
CCCACATGGAGAAACACTGGAACCCCTCTCAGAAATCAGATGCCAATTTAAATATTACT  
ATCAAGAGAAATACACTCTGATTTTTTTTTCTATTCCCTTTCTTTTATTTTCTTTTTG  
AGACAAGGTCTTGGCTCCGNTGNCCAAGCTGGAATATGATGGNGCCATCATAGCTCACTA  
TAACCTCNGATTNCTGGGCTCAAGTGATCCTCTTGGCTTANNCTCCTGAGTAGCTGGGAC  
TATNGGCGTGGGCCCGCCCCACCCGGGCTAAATTT

## Sequence 1112

GCGCTNGTGTTTCAATCCCTTACGCNCCGCAGCCNTGNTGATGGTCTAACCAAATTCTAG  
TNCCTGCTACAATGGGATGGCCTGGGGGATTAATGGAACTTTGCCGGGACCAACTTATGA  
TAAGTGGGAAAGCACTTTAGGGCTGATCCCATATANGTGGTGAACACTGCACTTNTGGCC  
AAATGGACACGGAGGATAANCACCATNTGACACTGGGGGTGGTNCAGTTGGAGCTCTGGA  
AGGAAAAGNCTTCTGGGGTGGATCTCTAACAATATTAATACCTCNGCCGCACCCGCTAA  
GGCGAATTCCAGCACACTTGCCGGCCGTTACTAGTGGATCGAGCTCGGTACCAAGCTTGG  
C

## Sequence 1113

CCCTTAGCGTGGTGC GCGGCCGAGGTACTTTTTCTTTTTCTTTTTTTTTTTTGAGAC  
AGAGTCTCTCTGTCACTCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACC  
TCCACCTCCTGGGTTCAAGCAATTCTCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG  
GCAGGCACCACACACCCGGCTAATTTGTATTTTGTAGTAAACGGGGTTTCTCCATGT  
TGGTCAGTCTGGTTTGAACCTCCAGCGTCAGGTCTCTGCCTGCCTCGGCCTCCCAAAG  
TGCTGGGATTACAGGCGTGAGCCACCGCGCCAGCCACTTCTGTATTTTTAAAAAAGTG  
TAAGATTTGAGTATTATACTGGGATAGAAGTGAAGTTGGGGGCTTAATTTGATCTATCAG  
CTTATTGAAAACAAGGACCTTTTTAAAAAATGGTTTTGTTAGGTTGGAAGAAGTGAAGTT  
TTAATCCGTCATTTAANTTAGCCNAGTATGTTGATTTTTTTTTGGNGAAAGNGTACCTG  
CCCCGGGCGGGCNGTTCGAAANGGG

## Sequence 1114

CCCTTAGCGTGGTGC GCGGCCGAGGTACCACANGGACCCAAGGACCTCTAGCTGTGTTTGG  
TGAGGCAGGTCTTTGTCAATTTAAGTAATCCTGTCAGATGGTGTACCAATCTTGTAATC  
ACGACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAGTTTTTTTA  
TATATACGTTCCATTTTCAGACAGGTGGTGGCTTTGAGTTGAATTTGCAAGTTCAAGTG  
AAACATGGATCTCTTTTTATTTAACTCCCTTTCTCTNCTAAGGTGCTTAATTTCCAT  
GCTTGACATCGTACCTGCCCGGGCGGGCGNTCGAAAGGGCGAA

Table 1

## Sequence 1115

GTACAGAAGGGTTTCACCATGTTCAACCACTGGTCTCAAACCTCCTGGTCTCAAGTGATC  
CATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACTTGAGCCACCGCACCTGTCCC  
ATCACTTTATATTTTCAAGAAGGTGGTGAGGGTGTGTTGGTGCCTGGGGTCTCTAGCTGA  
AGAAAAGGGAAATTTTTCTATCTCTGGTAATGTCTTTATGGATATAAACCTCAGTTAACT  
GGAATAGCTATGGAATGTATGCTTCTGGTTAACTAAAAATTAACCAGTAAACACTCTGTA  
NTAACATTACAGAAAATACTTCTGCTTTAAAAAAGTACCTGCCCNNGCGGGCCGCTCGA  
AAAGGG

## Sequence 1116

TNTCTGCANAATTGCGCCCTTAGCGTGGTTCGCGGCCCGANGTACCATCCCAAGGACACAAG  
TTTCCAGGCAGCAGCCTNCAAGATTTTGTAGAGATGTCCCATCACTTATGGCCTACAC  
TGTTACATCTGGACTCTGGATTGCAAGTGTAAGGAAGAAAGTGAAATGAAAGAGAAAGT  
GGAACAAATATTGGCAACAGAGCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGTTAAG  
TGAAAAATGCTGTTGCCATGGGAGTACCTGCCCCGGGCGGCCGCTCGAAAGGG

## Sequence 1117

TTTTAAAANNCATTTTTTTTTNCAGGGGGNGAAAAAAGGGGGGGCCANTTTTC  
ANCCTTGAAAAAATGGNNTTTTAAAAAATNAAAAAANAANTTTTCAAANCNNNAAAAAN  
NANNACCNCCTTTTTNAAAAAATAAAAAAANNCCCCCGGGGGGCNTNAAAAAACCTT  
TTTTTTTAANTTTTTTAAAAAACCCNCCCNCCNCCATTTTTTAAAGNNGGTTCTNTTTT  
NAAAAAATAAANATTGGTTTTTAAAAAATAATCCCCCCCCNATTTTTTAAAN  
CCAATTTTTNTTTAAAAAATAAACCCGNNTTTTAAAAAAGNNGGGGATTTTTTCCA  
NNTTTAAAGGGGGAAAAAAGGGNTTTTTTTGGGNNAAAAAAAGNCCCCCCCCA  
AAATTTTTGAAAAAATAAGGNTCNCCTTCCAGGNNTTTNAAAAAANAANAANT  
TTTCCCCCCTAAAAAATAAGGGGGGGGTTTTTTTTTTTTTTTNGNAAAA  
AAAAAATAAANGGGGGGGGGCCCCCGGGGTTTTTTTTTAAAAAANAANTTTTT  
GGGGGGGGGGGTTTTTTTTTTTTTNCCCC

## Sequence 1118

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAAA  
AAGTTGGCCAGCCCCAGGGAATAAATTTGACTGTCTAAACAACCACAGACCAAGGGCC  
AAATCTGGCCCTCTGACTGTATAAATTAAGTTTACTGGAATAAAACCAGGTCCATTGAT  
TTATCCATTGTCTACATACNCTTTTAGGCTCGATGGCNCCTACTGTGTCTACAAAANANG  
TTATCTAGACAAAAAGCCTAAATATTACCGTTGCTCTTTATNGAAAAAGTTTGCCATT  
CCCTANTCTAAGGGTTANATTCTGACTTATCATGTTATCCTACCCCCCCCCGNGTACCTG  
CCGGGGCGGCCGTTTNAAGGG

## Sequence 1119

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCGCCGGGCAGGTAC  
AATATGGAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGTTGCCCATGTAAA  
TAGTTTAAACACTGTAGAAGTATTANAGAGATCCTTAGGGAATGATGCAAGTGGCATTG  
AGCTATTCAATTANAGAAAAAGTTTAAAAACATGCNGTCTAAANGGAAGAGATNGAGGC  
CATTTGAAAAAATNTTCTTAAGATTAAACAGCTGGTTATCCCACTGGCTAACTTCGGATGG  
TGNGGCANAAAGCACCGTNTTGGCTAAACAAAGNNGGAATGGCGTTTAAAAATAGGAAA  
GGGCAAGGCTAAANATTTTGAACCTAATCCTACTTGGGTGCAGGGAATAACATAGCTTAT  
TCTTCATGAAAGTNTTTTNTTCACTACCTAAACAGNTTATACATTTGCTTTTATCTG  
GAGGGATGGAATAACCAANTTTTTTTTTGCCCCTTAATCCTTAAATTGAACTAACT  
TTTNTNTTTNGGGGTTGCCAAAAA

## Sequence 1120

CCCTTAGCGTGGTTCGCGGCCCGAGGTACACACATCTTTTGAGATCCTACCTTCAGTTCT  
TTTGAGTATATAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAAATTA  
TTGAGGAACCACTGTAGTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACCAAGAGTG  
CACAAGGGTTCCGAGGTTCCACATCCTCCCCAACACTTGTTATTTCTGCTTTTTTAG  
ATTGCAGCCATCATAGTGGGTGTGAGGTGACATTTTCAATTGNGGTTTTGATTTGCATTTCC  
CTAATGAGGAGTGATGCTGAGCATCTTTTCAATGCTTACTGGTCATTTGTATGTTGTCT  
TTGGAAAAATGTCTATTCAAGTCTTTGACTATTTTAAAAATTGGGTATTAGAAGTTAT  
CGTTGGTGNTGACTGTAGGAGTTNCTTTCTATATTCTGGATATTAATCCCCCTATCAGA  
TATATGATTTGCAAAATCTTCTCTTAATCCATAAGGGTACCTTTTCACTTTTGTGAA  
TGGGGTCTTTGATGNATAGAAAGNTTTTANGNTTTGAAANANCTAAATTATCNGGTTTTA

Table 1

CTTTTGGGGGGCTGGG

Sequence 1121

CCCTTAGCGTGGTCGCGTTCGAGGTA CTTTNTTTTTTTTTTTTTTTAATATTTAGTAG  
AGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCGGGGCTGAAAAAT  
AACCCTTTAGATATCTACAGCTTTAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAG  
TCATTGGCATTTAATAAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTATA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAGAATTTTATTC  
TGGTCTCAATATGGTNGCTGCTCTTCTTATCAAATCTATAATAAACTATNTGACTATNA  
TATAGATTTT CAGGAGCTAAAAAAGCCTTATATTTTCAAATTAAGAACNATTTTAATT  
TTGCNAAATCAATNAGCATTACTGAAGTTTAAGGAAATTTTGAATAAAATATATGGCAN  
TTANATNCCGCCTAAAAAGAATGNAATCTTAANGATTNCTTTTGGCTCAGGGGCNTAAA  
ATTCCA

Sequence 1122

NGCCCTTCGGNTTTCGGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCGGAGCTCGA  
CCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAGTTTAAAAGAAGGAAGCTT  
ATCTAACACGTGGAATGAAAAGTACCTCGGCCGCGACACGCTAAGGG

Sequence 1123

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCGCCGGGCAGGTAC  
CTTTTATCCCTCAAAGGACCTTCTTGGGTTTTGAATGGAAGCCTTTATTCCGGTTAAGA  
TGTTTTCTTTATTTGCCACTTCCATCTTTTTTGTGGCCCTCGATCCTATTTTCCCTG  
ACTCCATGCTTGGTTGGCCCTTATAAACTTGTGCCCAAAGATTGTGGATTAGACTTTC  
CGAGGACTTACCTGTCTAGGGGAGTAGGCAAGCACTTCACTAGGGAGGGGGTGGGGGAA  
AGGAATGACACATGACATACATGGCATAACATTAAGCAGTTGATCATATGTCTGACTGG  
GTTCCAGTTTCTTGGGAATGTTGGGTCCCTTGTTCAGGCTTGCAATTTTAACTAAAA  
ATTTCAAGTCTATTGTTTTAGTAACTTCATTATANNCTCCATAACAAGTTAGAAGGA  
TGTATCTGCTACCATTTATTCCTATAATTTAAGAAAGNTGGGGCTTGACATTATACTCA  
TTTAGTGAGAGTANATGCCAAAAAAGTGGAGGGG

Sequence 1124

CCCTTTGANC GGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGTATGCTTAGGG  
TTCGCAAAAAGTAAACAAAAATACAAGGGAAAAAATTATTGACAATGAACTGCTTTGGT  
AGTGATTTGTGATTTTGTTTTTCTTGATTAGTAACCAACAGCACAGCCACCAAGAAATT  
ATGCACATGTGGGACCACGTCAAGCTGAAGCGTTTGTGCCCAACAAAGGAAACAATAAAG  
AAAATAAAAAGGCACACTAAAAATTACAAGTTTGGGATAAGGGATTATTTTGAAGAGGT  
ACCTCGGCCGCGACACGCTAAGGG

Sequence 1125

CCCTTAGCGTGGTCGCGGCCCGGAGGTACAGAAAAAGACACATTTAGATAAACTGAAGCAG  
ATTAAGTGACTTTATAAGACAACATCTTTGTTTTATGTTTAATTTCAAGTATGGTTAA  
GCACATAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACTCTTACAGAAACAA  
GTGTAGTCAGTAGCCAACATACATCCATGTCAGCCTATATGACTTACTAGGAGGGCTT  
AAGTTTTTTAAAAGAGATGAAAAATAAAGAGAAGGTCTAGTATTTTCTCCACATTCCA  
ACAGATCATTTTATGTGCCCCCTTGGGTGAGCACATTCCATGTTGTAGACCATTGATCA  
TAGTAGTCAGAGCATGGAGCTCTGGAGTTCAGAAAAANTATTTTATTATTGGTGGTATGA  
CAAAAATAATTCCATGAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA  
AA

Sequence 1126

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTACTGTTCTTTTAAACCTGGAGAAGCCTC  
TATGGCTTATTCCTTAGAAGCAACAAATGAAATGATGTATAAGCATCAAGTCAAGAT  
ACAGGACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTAAAT  
ACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTAGGGATCCACCCGT  
GTTTCATAAAAGTGTCTTACACTCATGTTTGGCTTTCAAGAAGTGATATGCCTACTAAAG  
CTGTTATTTT GAGACTATCCCGCGTACCTCGGGCGGGCAGACGCTAAGGGCGAATTCAG  
CACACTGGCGGNCG

Sequence 1127

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCCT  
CCAATTCATTTTAATTTGTTTCTTGTGTTCTTCTCAAATATACAGTCCATCACC

Table 1

TTGGCTCAGTGCATGTCACCAAAAATTCTCCAGGGATTTCATAGTCTCGGTGGTGTGGCT  
GGCCCAGGACTATCCATGCAGGGAGGCCTGCACCTNTGACAGTCGGCTGCANCTGGGGGT  
GCCCCTTTNTGTGCTCTGTGGTACTNCTACACACATAAATTCAGGAAATGACTAGATGA  
GCCTGAGTTGGCTTTANTATTAATGTGCAAATACAGTTTTCTATACCAACAAACCC

Sequence 1128

CCCTTTTCNNTNNTGCCGCCCCGGGCAGGTACTATCGATTGGGTGGGGGTGATCTATTATC  
ATTGAGTAGGGAACTTACTAGGNTAAATAGAAAGTATATANAATGTATTTGGTTATAGA  
TATGTGAAGGAAAAGGCATANTTATATGGTCATCCATGCTGGGGAATATTTNGNAGNTNT  
NTTTTGTGAGAGAAATNGNNCATNTTGGATCAATAGNATTAGACAAATATCTTGNGCAT  
CAAGAGACCTGGAAACATG

Sequence 1129

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAATCTT  
GGCTAGTGTAATTCAGTCTTTTGAATAAATGGAAAAATAAATTGTATGTTATTTTTATA  
CAGAAAAAAGGCCTTAATATCATAAGGTTTTTTTATAGCCCTCAAACTGATTTTTAA  
TGGAGGTAGGCAACTGAGAAAAAAGCATTTAAATAGTTTTACCCCAAAGCCCCCAA  
AATTTTGCTTACAAAATTAGGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1130

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTCCTTTT  
TTATN  
GNNANNNNAATTTTTNTNCNGGGGGGNTTAAAAATTTTTTTTTNNNNGNTTCCNNNTA  
NTNNATTTAANGNNNGGNNNT.NTTTNNCCCTTTGNTNTNGGCNAAAAAAAAAAAAAT  
TTTTTTNTTAAAAACNTAAANGGCTTCCCTNAANANAAAAAANNATNTTNTTTTAA  
AAAAATAAGGNAAAAAANAATTTTT

Sequence 1131

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGGGAGAGGCTAGCAGTATTTTTAA  
TTGGTTTCTAAATTTTTTATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAAT  
CTGAAAAACCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAAATGACAATGTTTTCTT  
TATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTATCTGAAATAATAT  
TTAACCCTATCATAAAAATCTCTGCCTGGTAGAACAGCTGACTGTGGAAGGGTAAATGC  
AGAGAACCAGTCATTGGGATCTCCCTTCTCTACTTTGACTGAAATCTTGAACCTGTAGA  
ACATTACTTATCACTGTGTCCTTTCTAATGGGGAATAATAATAAACACTTGCAGAGTA  
TTTTTAAAAAGTTTTTAGCTTTAAAAAANAAC

Sequence 1132

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCACATGGTGAAA  
GCAGGAGCAAGAGGGATAGAGGTGCCATACACTTTTAAACAATCCGATCTCACAAGAGCT  
CACTCACTATTGCAAAGATAACTCCAAGCCGTGAGTGATTGGCTCCCATGACCTGAACAC  
CTCCACCAGGTCCTACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGG  
GATAAATATCCAAATTATATCATTCTGCTCCTGGCCTCTCCCAAATCTCATGTCTTCTCA  
CATTGCAAAATATAATTATGCCTTCCTAACAGTCCCCAAAAGTCTTAACCTATTCCGACT  
TTAACTCAAAATTCAAAGTTGGCCAGATGCAGTGGCTCACACCTATAATCCCAGCATT  
TGG

Sequence 1133

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGTACTGAACTACAGGTGT  
GAGCCACCATGCCTGGCTTAAACATTTGTTTTTAATTAGCCAGGCTTGGTGGCACACATC  
TGTAAGTCCACCTACTCAGGAAGCTGAGGTGAGAGGATCACTTGAGCCCAGAAAGTTCAA  
GGGGCAGTGATCACTCCATTGCACTCCAGCCTGGGTAACAGAGTGAGACCCTGTCTCGCC  
AAAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAACCAAAAGAAGTAAGTATATTATGA  
AAATTATTTGATAGCAATCGCAATTATTTTGATAACTATTTTACATATTGTAAGCCAA  
CCAAATAGGGTCTTAAAAAGTTTCAAGACCAAATGATTGTTCTCTACTTCAGCCTAA  
AAAAAGTTAAAGAATTCTTCAATTACCAAAAGAACAGTTATTCTATANTTACAAAAAGA  
CTTGAACTTTTACCTGAATGCATCTCTTTGTTACAAAACCTTTAAAGGAGGTAGGGGG  
GAACTTCATTGATTCAATGCTGNCTGGTTTTTTAAACCA

Sequence 1134

AGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTT  
NTTTTTTTTTTTTTTTTTNANGAGCCTCTGGTTACGTTNNCTTGATATTTACTTTCTC  
ATCCTTTCTCTTTCTTACCTTCCTCTTTGACTCCTTATCTTTCTATGCCAACCTCTCT

Table 1

AAAAAGTCAGTATGTAATATAGTTGCTCTTTTATTTAAAAAATTTTAAGATTGATATTG  
CTTACTATCATGTTACGAGGCTTTATTTATATGTGTATTACAAATATATTTGTTAACTAC  
TAGCAAATATTTTATGTAATAACTTCGCTATTTTATTTAAATCCTGTTTTTAAAATTCTG  
AAATGTCATTTTAAGTATAGGAGACAGGTGAAATTGTTCAAGGTTACTACTAAACCAGG  
AATAAGGGAAGCTTAGATTCTTGGNCTTTTTTCAAAAAAGAAAAATTTTA

Sequence 1135

CATGCTCGAGCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTC  
GCGGCCCCGAGGTACAGAGGAAATGGGACTTTGCAATTATATTTTTCTAAGTGGTCTGAAC  
TTGGTCTCACTACCCACATCACCTGGAATGGTTACCAGGCCTCAAAGGACTGCCCCACGG  
GCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTCTTATCTGGGAGGTCTTTACAGA  
TGCCACTGTTGAGGGCCCCGAAGCTGAANAAAAGTGAATCCTCAAGTAGTCTTATC  
TTCTTTTGAACCAAGCCTTGCTGTTCTNNGGGCCGCAATTTGTGAATTTGGNCTGGAAGTN  
NNGGTTCTTTAAAAANAAAGNGATGGGGTCTTTTAAGGTAATTGAAATAAGGTGTTG  
ATGGTGTTAATTGGGTGATGATGTACCTNNGGCGNCTGGATAAAAGC

Sequence 1136

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGATGAAGATGTGTTAAATATCTCAGCAGA  
GGAGTGTATTAGATAAATGGAATTATGATATATATGATATACAACTTTTTCTATTTAA  
AAATATATTAATGGATCAACTTTAAATTTGTTAGTTGCCAGTGATCTTTTTTGAAAACA  
AAAATGGGGCATTGTTGATTTATTTTTCGCTCTCTAATTAGTTACCTCAGTTTGAT  
TGAAGCCAGTGAAGTTGTGCTTTTCTCTACTTCTACTTCTCTCCCCGACCTTTTTCTG  
CCCAGTGTAGGGTGTATTCTTAAATTCAGACAGGGGAGGATTCTTTCACATATNACTCA  
GCTACCTCCCAATCTGGGGGAGTTTTTCTTACAACCTTGATACCAGATCCATTAATTTAC  
ATTCCTGAATAAAGGCCTAGTA

Sequence 1137

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAACCTTGGCTCACCGCAACCTCCGCCTCCCG  
GGTTGAAGCGATTCTCCTGTCTCAGCCTCCCCAGTAGCTGGGATTACAGGTGTGCACCAC  
CACGTCCTGCTAATTTTTGTGTTTTAGTAGAGATGGAGTTCACCATGTTGGCAAGACTG  
GTCTTGAACCTCCTGACCTCAAGTGATCCATCCGCTTGGCCTCTCAAAGTGCTGGGATTA  
CAGGCATGAGCCACCGCACCTGGCCCTGTCAGGGTTTTCTTAACATTAGCAACTGCATTT  
TGATTCTGACAACCTGTCAACAATTTTGGGCCAGGTAACTTTTGGTGGCTTGTGCCCTGT  
AAGATTTTAGCAGCATCCCCGGCTTCTACCCACTAGATGTCAATAACATCC

Sequence 1138

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAACAGAACAAAGTCTCAGTTTTCAGTGCAAC  
ATTTCAAAAAATATATATGCTGCAATCTAATAATTAAGGAATTTACCTATTATGAAA  
CATATTACATTTTTTAAGTTAGATAATCANGTTTCAAAAGGAGTATTCAGGTTATTTAAC  
TTTGTTTTAAATGGCTGCATCAGAAAAAATGTCTATTTTTTTTTATTTAAATATTTCA  
TCACTTGTTAAACATATTTTTGATCTGAGTTTGGTAAAAGTATTATTTTACCTGCTGT  
GCCCTGCCCGGGCGGCCGCTCAAGGG

Sequence 1139

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGG  
AAAAGGTCAGGTTAGCATGTTTTAGAACTATTGGTAACTATAATTATGAGGACATTATA  
TAATCAAAAGATTAATTTTTAAGCACTAAGTTATAAAGGGTTTACACCCATGAATAAAA  
AGATTACCATCACTTACTATGAACCACCATTCATGAATCCATGTAGCTGAACACTCCTA  
ATGAAAAGTTTAATTATCCTTCAACCTGTAGTTGAAGAACTCAGTTCATGTTTATTGACA  
GATTTCCATTACAGACCCACTATATTGATGTTACTTTCTTTGACACTATATTTTATATAG  
GATATATTAATAATTGAAAACCTAATGCTGTTTGAAGGCTATTAATACTATTAATTTT  
TGAAAGCTTTGAGTTTTCTGAAAAGGCTTTAAGATCAAAATTTCTGAAACACTCCACAC  
ATTCCTCCTCACCCACATTTA

Sequence 1140

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGT  
AGGTGGAGGGTAGCCAGGAGGGCTTGGGGTGGGTATCACCTCACAATTTGAGATGGGG  
TTTTATTTTGCAGATTGATGATTGATCACAGGCCCATTTGACACTCCTTATGAAGGGGG  
TTTCTTCTGTTCTGTTTCTGGTGTCCGCCCGACTATCCCATCCACCCACCTCGGGTCAA  
ACTGATGACAACGGGCAATAACACAGTGAGGTTTAAACCCCACTTCTACCGCAATGGGAA  
AGTCTGCTTGAGTATTCTAGGGTAAGAGGAGACTTTTAAGTAGCCAAGTCCGGTTGTTAA  
GCAGATAATTACTCTAGGTGAGCCTTTATCAACCGGAGTCCCTCATCTGAACCTACAGAAC

Table 1

ACAGAAAATGATTGAGTGACTCTTCTCAAATCTCCCTCAGGATGGTATGTGACTAGTATC  
ATTCTAGATGCANAGGGGGGAGAAGTTAATTTATTACAGTGGTAACCTTTAGAAGTGGTCN  
CTTAAGANTGTGGGCCCTGAACCATCTGGGGAACCTGTAGCCCAGCCNGTTTCTGGGGCC  
CTTATCTTAGACCTACAAAAAGAACTTTGGGGGTTGGGG

Sequence 1141

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTNTTTTTTTTTTGGACGGAGTNTGGCTC  
TCTTGCCAGNATGGAGTGAAGTGGCAGCATCTCGGCTTACTGAACCTCCACCTCCTAGG  
TTCAAGCAATTCTCCTGCCTNAGNCTNCTGAGNAGTGGGGATTACAGGTGCCCGCCACCA  
TGTCTGGCTAATTTTTGTGNTATAGTANAGACGGGGNTTACCATGTTGGCCAAGGCTG  
GTCTTGAACCTCTGACCTNANATGATCCACCTGCCCTGACCTCCNACAGTGCTGGGATTA  
CAGGCATAGCCACCGAGCCNGACNAGGGCNNTTTANCAAGGAAAACGTGTGGAATGAAT  
GGCTGTTGGTGTGCANANAANTNATACTGTGNTACATGTTGTGAAACCTGAANTTTNTTT  
GNTNNGATTTNGTATGANGAATGANNNNCGGACNCAANCAACCCNTAAGGGGNGAAATTNC  
AGACANANTGGACGGGCNGTTACNTATNGGGATCNNNATNTNGGTAACAAAANNNTNAGG  
CTGNANTACNTGGTGNAANGTGCATGTTACATTGTNTGNAAAGTTGGTAATCNCANTTCA  
NNATTTNTANANANCATACTANNNNNGNGGCTTGTTTTGNNANAGGAGGGGGGGGGGCC  
AAACCCCCCNCCCCNCCCCCNNTTNNCCCCCCCC

Sequence 1142

CCCTTTGAGCGGCCGCCCGGGCAGGTACTATTAGCAACTGTGATGATGATGATTGTGAA  
TCTTATTTTCATATCTTGGGTTTTCTTACAGTGAAATATTTGTTGTGTTATTTTCTTTGT  
AAAAATAAACCATGTTTGCATCTTGGTCTTCTTTCCATTTGGATTCAAAGTTNTATAGT  
GATTCCTCCTAGTAAATTCATTTTCTCCTAGGAGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence 1143

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTACACATATATGCATATATGGTATAATG  
TATCAATATTTACAGAGACCATAGTAAACACAGCACAAAACCAGGCATTAAGAGATGCAT  
GGGAAATAGCATTTAAATGGTAAATATGGTAAAGATTGTTTTATGGTTTTTGGGTTTTT  
TTTTTAATGATCATATTTTAAATGTTACTTTAAATAGATTAGTGAATGTGATTCAAT  
T

Sequence 1144

CCCTTTGAGCGGCCGCCCGGGCAGGTACTATAAGTAGNTGGTTTGTATGANATGGTTAA  
AAAGGCCAAAGATAAAAGGTTTTCTTTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTTATT  
TTTTNGGCGCTGTTTGATGTATGTGTGAAACAATGTTGCCAACAATAACAGGAATTTTA  
TTTTGCTG

Sequence 1145

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTGTGTTTGCTTAAACAAAGTGACTGTTTGGCT  
TATAAACACATTGAATGCGCTTTATTGCCCATGGGATATGTGGTGTATATCCTTCCAAA  
AATTAACGAAATAAAGTAAAAAAGTACCTGCCCGGGCGGCCGNT  
CGAAAGGG

Sequence 1146

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTT  
CTGTGGAGTTCTTTTCAAAGAGATTTCAAAGCCACAAGTTAGATAAGGCCAAGAAGTAAG  
GCCAGAGTGAGATCGAAGTAGGCCTTTCTTTAAAAAATAATAGCTTTTATTTTATGTCA  
GTATCTTCTTTACAAATCTAACCTTCCCTTTTACGCTTTTGAAGATAGCTAAAATT  
CAGTGTGTTCTCTTATTATAAAGGATTGGGCTAATAGTTAAGCATTTCAAACATTTCA  
GTTTCGTTAATCAGAAGCTGCAAGTGGGTTTGTGTTTATAGCCAGTTTGCTTTTAAATTTG  
GCCATGTGGGCTTTAAGTTCAACGTATTTGTGTTCTCTTTATNGTTACTCTCTCCAGAAG  
TATTACCCAACTGTGAAGTTGTGGTTATGGGGATGGCAAACATTCTATTCTCGGAGG  
AGTTTTCAAGTCTNTGCGGTTGCTGTGCACTCAGAATGCCANATCCCGGGAAAGTAAGTC  
CTT

Sequence 1147

AGCGGCCGCCCGGGCAGGTACATCTGTCAAAAATCATATTTATGTGAGATGTGTCAATAC  
TANACTTGTGTNATTNATGCTACTTAGAANGANGATAAAAAATATCCTGTTTGGCTCCAA  
AAAAAGAAAAGTCAGCCCCCTCTGCACGAGTNGGAGCTGCAACCTTTANAATTGATAA  
TCACAAACCCCTNAGACCCANAGTAAAAAAGATATGTNACATTAGGCATTGA  
TGGAAAAGGACTAGATCCTAGTATAAGCATCCTAATAAAAGGAGAGGTTNAAAGACGCTC



Table 1

TCCAGAACCAGNNTTNCAGACTTTNTATGATAANCTAAATGTGCCANTCCTCGGCCNNTG  
ACCACNCTAAGGGG

Sequence 1148

CCCTTAGCGGCCCGCCCGGGCAGGTACTATTGAACCAACAGGATATCTTTTTTATTATTG  
CATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTATAAAACATCTTTTCCAGTGT  
TCTAATTGATGGAGATGCGGATCACTCATCTATAAAAAATGACTTACAGCTTCAGCTTAA  
TCAGTTGCTATAATGTGAAAACAGGAATGTGTATTTTTTCAACTAGGTAAAAGGTGCAT  
ATAATTTGAATTGTTAAATGTTTTATTAATGAACAAAGTAAACCTTTAGTAATTTTTAA  
ATTACTGGTCTTAGGTGTTTGAACAAGGTAAAAGTATACATTCCAGTTTTGCCCAAAAG  
TCACTTAAATATCTACAAATTATTTAATCTGTGTGTGGTAACACCATTATTGCTCCAAT  
TTCTGGAAAGAGTCTATTTTCAAAGTTTAAAAAGAGGAAAAACAGCAAAGTGGCTAACC  
TTTGCAGTGGAAAGAAAAAGTGTCTTCATGGGTACACTTTTCATTTTTTATGCAGCAT  
TAAGTTATCTACCGTTATGGGGGAACCTGGGGTTT

Sequence 1149

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTGTTCTTNTTACANNNTTACTGTCTCA  
GNTATAATTTTGCAATGGCGGTTTCNCAACTNGCCTGNCCNNACCCNNNTGTNTCATAAN  
TAATCTACGTAAACAAGTTAAATAGGTAAATGNAATGTGATNAATACTTGNGGACAACC  
TGGTCATAATTTANAATCTCAAGGCTATATTAATAATACATATTTTATTATTNGGGTAT  
TTTCCAATANAAATGTATTGGAGGAAAACCTTTCCANAAAAAGNGTAACCTTTTTAAN  
AAGGNGAATNANNNTTTGTCTAATTCAAAAGCTTATTTAAAGGTTATGTGTAACACCGG  
TNAAGAACCNTNAAATAAAGAAAGATNTAANATAAACGTTACCAAAAATAAAGTG

Sequence 1150

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTAA  
CAAAAATAATAGNGNAGAAGCTGGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGG  
GAGGCCAACTCAGGAGGATTGCTTTAGGCGAGGAGTTGAANACCAGCCTGGGCAACAAAA  
AACAAAAAATTACCCGGGCATGGTGATGTGTCCTGTAGTCCCAGCTACTTGACAGGCT  
GANATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTGCAGTGAGCCATGATCTCCCCA  
TTGCACTTCCANCTGNATGCCAGAGCAAGACACAGTNTCAAANAAAAAGAAAAACNCA  
ANAGAGGTGGAAGGGCTCANCAAGTGCTTCCACATTCGCATTCCCTTAAATCGGGAAT  
GCTCTAAAGCTAGAGGACTTTTA

Sequence 1151

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT  
TTTTTTTTTTGAGACGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGTCT  
CAGCTGACTGCAACCTCCGCCTCCTGGGTTCGAGATTCTCCTGCCTCANCTCCCAAGTA  
GCTGGGACTACAGGCACCCACCACACACTGGCTAATTTTTTTGTATTTTAGTAAAGA  
CGGGGTTTCACTATGTTGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCACC  
TTGGCCTCCCAATCTTATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCAC  
TGCTGCCTCCCTCCCAACATTTCCAAGGGACTGTCATTGCCTTAAGTTATTTTTCTGTT  
NAGNTTTTTTTTTGGCGTTTTNTTTTTTTTTNAAACAGCGTATTAATCTNTCGCCAAAG  
GCTTGGAATCANTNGCCCAAATTAAGCNTTGTGNAGCCTTGAACCTTCTGGGCTTA  
AGCAAATTCCTNTTACCTTNAGNAAANTNGNGACTACNGGGCCCATGCCACCACGCTTG  
GGCCTTTAAATTAATTTNTGGGTAAACAAAAAAACTTAAGCCCTANGNAAANTTTG  
GTTTAAAAATNACAAGAGGGACTTNNATNTTNCATTNATACAAATGGAAAAANATTAANTT  
TCNTCNTTANNANGANAAAGGAAAAAAAAAAAAAN

Sequence 1152

CCCTATCGAGCGGCCCGCCCGGGCAGGTACAAGCAAGACTTTCCTTTAATATTGATAAAGA  
ATTGAGTATCATGTATGCATTCCCTTTTATGATATACAATTAATTGAAGTTATTTCCCT  
TGATGCAACCATCCACATTTTTCTTCTGACCTTTTCTCAAGTCTTACAACACTTTTA  
ATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTTGCCTTATAATGGNGTTTTT  
CCATTTTTATCTTTGATTNGCAAGGGGTTGGAAGTATTATTTAGTCATTATATGGATT  
CCTCTAAAAATTGTTCAATANAATATATATTCATTTATTCACCTTACTTATTGTTTATTT  
ATTGCCTTAGAGTATACCCAAACACNGGAGGATTCAATAATGATCAAGACAGGTCTAATT  
TCTGTCCCAAANGAGCTTAAATATGNGAATTAGAAAAGGAATTTT

Sequence 1153

CCCTTAGCGTGGTCGCGGCCGAGGTACTACATAGAAAGGGCTTGGAAGTCTGATTCAGGA  
AAGGAAATCAGGAAAGAACAAGGAAATGAAGGAAGAATAAAAAAGAAGAGAAGTCATTG

Table 1

AAAAAGTATGAAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAAAAAATAC  
AACCCAGGTTTTCTGCCCTCATTCTATAGAGTCTTGAGAATTGTAGGGTGTAAAGAAATAA  
AGAATCAAGTCTGAGAGATCCCTTTTGCTTCTTTCTTGTCTCACTGATCTGGAACCCAGG  
TTGCCAGCTGGCTATTCACAGGCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG  
Sequence 1154

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAACTATCACTTGTCACTTGTCTAGGAAGGT  
AAAATACAGGAAGTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTCATTTGTAAGTCAC  
TTGCTTGGAATTTAGAATGCTTCTTCCCTCTGCAGAGACAGCTTCCATATGGTGATTAGT  
ATCCAGTCAGCCCACAGAAGTTATTCAGTCTGTTGCTATAGATGAAATTATCCTTATTTT  
TACTTCCCCTTCGAATAGACCACCTACTGTTTCTTCTGAGTGTGGTCTTTTTCTTTCTC  
CTATTCCTCCTCAATCCTCTTTTTTTTTTTTTTTTTNCTGGGTTTCTTCATTATTCTC  
TAATTTCTTCTTGGCTCAAAATACTTCAAGTTCTATTGNGGTAGCCTAGATTAGGGACT  
AGTTTGG

Sequence 1155

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGA  
GGGCCAAGGCTCAGTCACTCCTTGATGGCCTCCTAAATCTCCCCGTGGCAACAGGTCCA  
GGAGAGGCCCATGGAGCAGTCTCTCCATGGAGTAAGAAGGAAGGGAGCATGTACTTGGC  
CTTACTTTGTAGCCTTCATCAGGGTTTGCTGAAGATGGCGGTATATAGGCTGAGCAAGAG  
GTGGTGAGGTTGATCGGGGTTTATCGATTACAGAACAGGCTCCTCTAGAGGGATATGAAG  
CCCCGCGTCTGCCCGGGCGGCCGCTCGAAGGGCGA

Sequence 1156

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCATTTTTGTATTGCTATTAAGAAATA  
CCTGAGACTGAGTAATTTACAAAGAGTAGAGATTTAAATGGTCAAGGTTCTGCGGGCTTT  
ACAGGAAGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCTCAGGAAGCTCTTAAT  
CATGGCAGAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGCAGGAACAAGAGAGA  
GAAAGGAGATGTACATATACATTATGTAATTAAGGCGTGCATGTGTATGTATTAAGAA  
TAATGGTATATAAACAATAACAATATATACAATAAAACACCTAAACGCANAGGCTGCTTG  
TTATCCACAATANTAATACCAATAG

Sequence 1157

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTT  
TTGGGGCAGAAAGCATGGACTTTTAAAGGGGGACTTGGCATGAATGCATTAGAGGAGGG  
AGTGAGCAGTTGGGGGTCTGCGTGACTCGCTTTCTGCTTAATCTACTGGTGGTCCGAGCT  
GGCTGCATCACAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTCTCAAGACACTCTCCAGG  
TGGGAGAGCCTTCCATCAGGGACATACTTTAGGTTGCAAATTGACTGTTGTCTCTTGAGG  
CAATCTCCTTGTGGGAGAGAGTTTCTGCCCTGGAGCTTCAAAGTAAGCACGTAGTTAGA  
TAAGCTTCCAGTGTAANTGAGTGTCTGGTGAAAGGGAAGGTAAAGGTTATGATTGCATT  
TCTGAAAGAGCTAAGGTANGGAAATGGGGAACATAAAAAAAAAAAAAAAAAAAAGTC

Sequence 1158

GAGAAGGCTTCATTAANGGAATCTCACTGNGAATATCTCCTGAGAGATGGACAATGAAAT  
ATCAGNNGGNGGATATGNGTGATAAGCTGATTTCAATATTGAAGTATNGAAATAAAATAT  
TCTTTACACCTGAAAAAAAAAAAAAAAAAAGNACCTGCCCGGGCGGCCGCNCGAAAG  
GGCGAATNCCAGCACACNNGCGGCCGACNAGNNGANCCGAGCTCGGNACCAAGCNNG  
G  
CGGAANCANGGCATAGCNGNNCCTGGGGGAAAANGGNAN

Sequence 1159

CCCTTTGAGCGGCCGCCCGGGCAGGTACACCAGCCTGGCGACAAGAGCGAAACTCCATC  
ACACACACAAAAAATTAATTAATAAATAAATAAACATTGGTCAAAAAATATAAGCTGTATC  
AACTGTATATAAATAATTCAATTAATAATATCATGCATAAAATCTGGGTGTAATAAACA  
AAGAATAATTTTTTAAACCCAAAGCAAGGCAAGGGGTGATGTTACCAAACTGCCATGT  
ATCAGAGATGTGATTAGAAGGAAATCCTTCAAGGGGAGCTTATTTATGGTACCTCGGCCG  
CGACCACGCTAAGGG

Sequence 1160

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGATATGAACTACCGTGCTCCCTG  
ATACCCTAAATTTTATCAAAATTTTCACTGCTATTTTCTCATAGGATTAAAGGGCT  
ATTTATTATTTTTATAACTACAGCTGACCCTTGAACAACATAGGGGTTAAAGGTGCAGA  
TCCCCCGTGACGTAAAAAATAAATCATAAAAAATTTAGATTCCCAGAAACTTGAC



Table 1

TATTAATAGCCTACTGTTGACCGGAAGCCTTACAAACAGTTAATACACATTTTGTATGTT  
GNATGTATTATATAATGTACCTGCCGGGCGGCCGCTCAAAGGGCGA

Sequence 1161

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAA  
TCCTGTAAGCCCCTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGCTTCGGCTGCTCA  
GGGTTTCATCTGAAGATTCAATGAAAAGAAATGCATGTTTCCTGCTCTTCCCTCATTAAA  
TTGCTTTTAAATCCAAAAAAAAAAAAAAAAAAAAAGTACCAGTCTCACATTTGGCCCAA  
ACCTCAGGATTCTCCCTCTGCCTGTCTTACTTCATGGTACCTGCCCGGGCGGCCGCTCAA  
AGGG

Sequence 1162

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTTGAAGTGGAGAGCTGGAATGTGA  
ATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCAA  
AGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGGC  
TGAGTCTTAACCTCTCTGAGCCTTTGCTGTTTCATCTGTAAAGTGGTCTCCTGACAGCT  
GCCTCCTAGGGTTGTTTGAAGATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTAC  
CTGCCCGGGCGGCCGCTCAAAGGGCNAATTC

Sequence 1163

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTACCCTCTGAAATTAAGCAGGCTG  
TGGGGTGGTGTCTGAAACTAGGTAGAAGTCTCACCCCCAACAAACCTTTACCAGTGG  
TTTTAGCATGCAGAAGATTCTGGCCTGAACCACTTACTACTACAGAGGCTGCAAAATGAT  
GATTTTTTCATTCTTTNGTAAATACCCGGTATTTTTACAGGATGAATGTACCTGC  
CCGGCGGGCGGCCGCTCAAAGGGCGAATTC

Sequence 1164

ACTTNTTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCTGTACCTAGGC  
TGGAGTGCAGGCAACAGGCCAAGACCCTGTCTCCAAAAGAAAAAAGGAATAATTCTAA  
AAGACTTATATTGATTTTTTCCCAATTAACATTAAACGCCTCCACCTGCCCGTGGGAA  
ATTGGGTGGCATGTCACTGAAAGGCAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1165

CCCTTAGCGGCCCGCCCGGCGAGGTACAAACTTTCTTCAGTTCTAATTTCTAAGATGTTTC  
ACTCTTTAAGTAGAAATGAAAGTCATCTGACTGAAAATTATAGCAGTATCTAATTGTTTT  
TCATAACTAGCCAAATTCAGAAATGTCCTGGATATATTTCTGGACAATGTAGATGCTGAT  
ATCCTTGGAATTTAGGTTATACTGACTTTTATCTTTACCAAACCATATTAACATTTGCATT  
TTATAATTGGAATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGCAGGCAAGCATC  
AACCAACAATACTTTTATGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1166

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAA  
GCACTATAACATAATTGTTGNCCATGATACTGAAGCTTTTCCCTCACTTNTAGGTTGTT  
TACATTCAGAGCTCTATCAATAAGANGAATACATATTACAGTGAATTCGACAACCGCACA  
AGTNGGCAGTNGGTATCCCAACCTAATTTATCTTGGTAAATTCACCCTGTTTCCTAGTG  
CTGNTGGATAAAAGAGTGTTTACTTTTTATGCTNTTAGACAGAGTAGNCTANATAANTT  
TTCAATTTATCAACATANCCTAGACTTCTGTAAGTGGAAATGNTCATTAGTAACTCATCTT  
TTTGTTGNTATAATTGGAAAACAGAAACGAGGCTTATTGCTATTGCAGAAATNCNAACT  
GGCAAAAGGCCNAGTATTTNTGGTATTCCATTAATATAACCAGCTTTTGAAATTTATGTG  
TTTGGATTANTGCCCTCTGGGTTACCNAAGTATTGACTCTGNTTAGTTTGGCACCTTTTC  
CGGNCTTAACANAAAAATNGNAATTTGGTTAATTCTCTTAAANATTNGGTNGNANCTAGT  
NGANNGGAGGTNATNNCCTAGGAANTTTACNAAGAANNTTNGNNACTTGCCNNGGCGNGG  
CGNTTTNAAANGGGCGNNTTCCANCAAANTTGGCGGGCGTTACTAAGTGGGNTCNCNNCC  
NTCGGGACCCGAGCTTGGNCGTATTNTTGGGGAGNACCCCTCCCNCCCCNCNTTNTT  
TGGAATAGAAATCCCCCCC

Sequence 1167

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCTGTCTTCTAATTTTTAAATTTATTAATG  
TCTTCTATTTTTCTAAGGCTGATTTTTTCTAATGTCTGTATTTTCTTTTTTTTACATC  
TTGACATAAGTAGAGTTCATTTATTTTCAATTTATTCTTGATAATAAAATTAAGGT  
TAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAATCTCAATGTTGTATGTC  
ATCTACTTCAAAATTTCAAGCTTCCCTTTAAATACTGTTTAAAAAATTTATGAAACC

Table 1

AGTATTTCTCTCAACCCTTNGTGTAATACCTGGTTTTACTTTAAATGTGGTCAAGATAAT  
TTAACCTGT

Sequence 1168

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCAGGGATATACAAAGGTGAAAAGAAACCT  
GAAATATTTGTTGATGGCTGGAATATTTATTTTTTATGATCAAATAGATGAACTGCCTACC  
TATTGGTCAGAATGTGGAAAAAATACAGAATCTGTTGGGCAGTTATGGTTGGGCCTTCTT  
CGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCAGGAGAAAAAGT  
CTGCTTACAACTTTTAAGAAACAGTGGACCTCAAAATACATTGTTATTGAAGATCCCTTT  
GATTTGAATCATAATCTCGGAGCTGGATTATCAAGGAAAAATGACAAATTTTATAATGAA  
GCTTTTATCAATGGTAGAAGAAGTATTTGGGATTTCTGGTCAAGGGGATTTCAAANGAC  
TACCCCTCAA

Sequence 1169

CCCTTAGCGTGGTTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACTCTTAA  
ACACCAGCTGGCAAATGATAGGGCTTTTCCTTTGAATTANTCACCACAGGTGTGAAAGA  
CAGAATGACTAATCCATCTGATTAAACATANACCTTTTAGAAATCAATAACCTTATTTAC  
ACAGATGACAACCTGCTACTGTTCCAAGGCCTTAATCATGGTTCAGTTCTCAGGGCCTCA  
AGTCTTTTCCATTCCATCNCANAGTANTACCTGCCCGGGCGGCCGCTCGAAA

Sequence 1170

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGCAGCTAGGAATAATGGAATAGGACCGCGGTT  
CTATTTTGTGTTTTTCGGAACCTGAGGCCATGATTAAANAGGGCGGCCGGGGGTGGCTATT  
GTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCC  
ACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTANAATGCTTGGGAAATAGTCATA  
ATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTT  
TGCATATTTCTTCATTCTAAAGNTGTTCCCTGCCCGGGAGCGTTGGCTTTTCGCCTGTAA  
TCCCAACACTTTGGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCGAGACCAGCCCA  
GCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACGCCTGCCTG  
TANTCCAGCTACTCGGGANGCTGAAGCAGGAGGATCGCTTGAACCCATGAAGTGGAGAC  
TGCAGTGAAGCCGATATCGCACCAANAAGNGCTCCAGCCTGGTCGACAGAGTGAAGACTCC  
NTTCTTAAGAAAAAATAAAAAATAANGTTGTTNTCTTGAAGAAAAA

Sequence 1171

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGGAGGAATGTTTGGTTGGGAGAATCACAGC  
TTTACAAGGGTGTTTATATTTGATTTGTGTTTATTTGAGGCAGGTATTGTAATATAAA  
GGAATCCATTACCATGTCTATAAATGACCTCTAGCCATTTTATGATTATTGTTCTCTGT  
AAAACCTTTCAAGACTTCAATGAGAAGTTTGTTTATAAGAATTATCTTCTCATACCTTTC  
CTTGTGAAGAGCGTATTCTGTTTTCTATCAGTTCGACATGAAGTCCACATCACATGCTG  
TTCTTTTCTAGTTACATGATGTGCCT

Sequence 1172

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTTGAAGTGGCAGAGCTGGAATGTG  
AATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCA  
AAGGATGGCCCAGGAGAAAGGCAGGCCAGATTCCAATCTGGCTTGACCGTCTAAGAGG  
CTGAGNCTTAACCTCT

Sequence 1173

CCCTTCGAGCGGCCCGCCCGGGCAGGTACGAAGACAGCATCCTTCAATCCCGCCAGCTCA  
TGTGCATCTGAGGGTGGGGCTCTGTCTTCATGCTAGAAACCAAACTGCTCTCACAGCTTC  
CTGCTAAATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACCTCGGCCGC  
GACCACGCTAAGGG

Sequence 1174

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGATTGCATAATAATTTTATGATAAATGTCAGG  
AACAGAATCACATTCTTAAAGGCNGAATTTCTATAAACGTGTGTATATGTTGAACAGAT  
GAGCAGCTCTGCAAAGATGTGTATACTGCATTTGAAAANGACAGTGAAAATTTTGGGTT  
ACTGTAGATGTCCACAGTCTGNCTTGGAAATTTAGTTCTGTGACTAAAGGAGGCTTACAG  
NTGCTCCAATTTTGGTTCTGNNGGGTACCTGCCCGGGCAGCCGCTCAAGGGCGAATTCCA  
G

Sequence 1175

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGGTCACAACAGATGAGCAACTGATATCACTC

Table 1

ACACATGCTATTAAGAACTGTCCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAA  
AGCGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAAATGCCAAT  
GTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATCCCACAGGAAGAGTTGCCC  
GTTAAACTGTCTCAGGTGCCAGACCCTCCAGATAACATGAATCTGGCCAAGAATTTTCCA  
GCACATATTTTTGAGCCAGCTGTGTTGTTAACACCAC

Sequence 1176

CCCTTTTCGAGCGGCCGCCCGGGGCGAGGTACCGCGGCCGTTAAACATGTGTCACTGGGCAG  
GCGGTGCCTCTAATACTGGTGATGCTAGAGGTGATGTTTTGGTAAACAGGCGGGGTAAG  
ATTTGCCGAGTTCCCCGCGTACCAATGACTGGTTCCATGATCCCCTAAGAGAACACAAT  
TAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTACTTCTGAGCCTT  
ATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTACACTTTAGAGAGGTTGATTAACGAGT  
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCA

Sequence 1177

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGC  
CTGCAACTTATTCTTTAATAGTTCAGAAATATTAACAATTGGGTAATTTGGGTGAAAGGT  
ATAAGGAGCTATAAATGTTATTTCTGCAACTTTATGTAAATTTCAAGTTATTTAAATG  
AAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACCTATTAAATAAATCTGAGT  
CCAGGCATGACACAGTGGTTCATGCCTGTAATTCAGGGAGGGACTGGGAGGCCGAAGTG  
GGCAATCACTTGAGGTCAGGA

Sequence 1178

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAATTGTTTTAGAAGCAAACACTACAGGACTT  
AAAAAAGGTGATTTTTTTTTTTGGCTGCAAGTAGGCACTTATTGTAATTTTATTCATG  
CTATGAACATCATGATTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATAGAG  
TATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGATGTTTATTTGTTCA  
TTAGCACTCTGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1179

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNCTTTT  
TTCNGTNAAAAAAAACCTGCN  
TCCTTTAANGGNNAANNAATNCTGGATTAANANNNCCCCNGGAAAAANGNNGGGGAC  
CNTTTTTGGAAAAAANAATTANGGAATTTAAAAANGGGGGGNGAAAAATTCNNTGCGGG  
NNATTNNTTNAAAAAATACANTTTTANTTTNANCATNTTTNNACCNNNCNACNTTTAA  
ANTTTTNAANAGGTTTTTACNCTTTTTTGTTAACAACCCCNNGNAAAAAAAANAATTT  
TTTTT

Sequence 1180

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTCCCCNANCTNNTTTT  
TTTNCNTTTTAAAAAAAANTTTTTNNNAAANGGTTTTTTAAAAANTTTNNNNGGNNGGA  
AANTTAANANNATNANNNNGGNANAATTTTTTTTTTTTTTNCNCCCAAAAANTTTNTTTNGG  
GGCNTTAANTTTAAAAAAAANTTTNNNNCCGNTTTTGGNNNNGNNGGNGGGGAAAAAA  
AAATTTAAAAAA

Sequence 1181

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTAGGCTTTCATAAAAATACAGCAGGGCAAG  
AGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGAC  
TTGAAAAAGGTGGAGAAGCAAGCCTTGTTGGGTATTTAGGGTAGCAGTAGTCCAGGCAAGG  
GGAACAACACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTAAGAACAGTAA  
GGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCCAAAGTGGTAGAAGGTGGGGA  
TCAAAGAGGTAATGAGGCCTTG

Sequence 1182

CCCTTAGCGTGGTCGCGGCCGAGGTCTAATGAAAGCCAGATAAAGGGATGGACGATCAC  
AAGGTGAAGTCCCACANTAGGCTATCTGCAAGCTGAGGAGCAAGGACCANTCATCCAACC  
TCAAATAGNANAAAANGGNNGNAAGCCCCGACAGGGCAGCCTTCAGTCTGTGGCTGAAGG  
CCCTAGAGCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAAAGCTGAAGAAGCTTG  
GAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACGGGAGAGAAAAGATGGGCCGAAGACT  
CAGCCAGTCTAGCATTTCACATTTCCCCCGCGTACCTTGCCCNNGGCCGGG

Sequence 1183

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTTTTGTGTATTACTTTTCACTTAGC

Table 1

ATAATGTCCTCCAGCTTCATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGG  
CAAGGGTAAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAACCTC  
TCCCTGTTTTAGCTAGTCCTCAATTTGTCTGATGTCTGAACCCCACTGCCAGAGTTGAG  
TCTTGCCTGCTGAGTCATGTCCAGACTCCTACCTCAGAAGTATGAAGCATAACTGGTGTT  
ACAAACACCATCTTCAGAACA

Sequence 1184

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAGCTCATTCTATACCCGAAGAGCA  
GTCTCAGAAAGCAAGATTACTTTTTGTGTTTTTAAAAAATGATTCTTTAATGTAANTTTT  
CTAAACATTCTGATTGGAAGTAGTGGATTCTAAATGATTCCAAAGTCATCTGTAATTCT  
TCTGTTTTGTGTTTGTCTGTCTTTCTTCATTTTGGCTTTGGGTGGGGGGAGGGGCAGG  
TGACACAAAGGATTTTTTTTTTTTTTTTTTAAATTTTTGGAATCTTTNCCAATAACCCA  
GCTAAAGATTTGCACTGAATACAACCTGTATGCCTTTTGCAT

Sequence 1185

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCTGTATTTGTTCTTATGAAATGACTATCTG  
CCTTCTCGTATCTAGTAAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTAT  
TTTTTATATTACCACATCAGCATTATATTTAAAGTGTTTTTAATAGTTGAATGATTTTG  
CCAACTACTAGTATAGACTCAAATTTGCTATTTTAAATTTTTAAATACAATTTATTTTGT  
AATCCTTTAAAAATATTTGGTTAGTTTGGATTAGAAATGATTTATGTTAGCCATGTGT  
TGAAGATGAAATTG

Sequence 1186

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAAG  
GCAAATGAAATGATGTAATACAATGAACTCCTCAGAAAATAAGCTCTGTAAATCTCAGA  
CTGCCTGTTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTTAGAGAAAAATGAT  
GGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACCTACAAGAGA  
AATACAGTTGGCCCTTGAACAACACAGATTTTGAACACATGGAGTCCCGTGTACCTCGG  
CCGCGACCACGCTAAGGGCGAATTCCAGCACACTGNCGGCCGT

Sequence 1187

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCTCAAATAACCTGTGAGTTGGGAAATTCCT  
CTCCTCTTGAGGTCCCAAGATGGCGTGGGGTTCTGGGCCTGTCGGAAAGTGGCATTCTT  
TACTAACACAGGTGAGGAACCCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCAGTT  
TTCCCAAGGAACTTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTAAAGGAAAGCACAC  
CATTCCCATCAAAGTCCTGGTAAAACAAGTCTTCTAATTGTGTCCTGTTGCAAAAG  
AAAACAGATTCTTATTGCACTTGTGCAAA

Sequence 1188

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATCTTACTTGATTATTTTATTTTCTATCC  
CACCAATCCACACCTTCACTGGAAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTT  
TGTTCAATGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAATTA  
TGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTGATCACTAGTTGAAGTATAAAT  
ATATATTTTGAAGAATAAATGCTACAGTAACTGATTATGACAGCTAATTCTGTGTACC  
TCGGCCGCGACCACGCTAAGGGCG

Sequence 1189

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGCATAGTTGAGTAGTCACCACAGGACCTA  
GCTGAAATCCTAAATATTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATA  
GACAACGAATATCAGAATCTATCATACAGCAATGGTGAACACCTATTCCAGTTGGGG  
TGTGTGTGTGTTGTGTGTGTGTGTATGTGGTGGGTT

Sequence 1190

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACCTCTTA  
AACACCAGCTCGGCAAAATGATAGGGCTTTTCCCTTCGAATTAGTCACCACAGGTGNGAA  
AGACAGAATGACTAATNCCATCTNGANTAAANATAGACCTTNNNAGAAATCAATNACNCT  
TATNTTACA

Sequence 1191

AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCATCTTTTGTCTACTTTCTGTG  
ACTTAACTGCCATCTGTGATACATGAGGACTTACCTAAAATGTCTGAGAACTGACTTAC  
GCTTGATTACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATGA  
TAAAAATAATCTTAAAAAATAAATATGATGGTATAGTAATAAAGTAAAAATAAATATGG  
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Table 1

## Sequence 1192

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAAAACAAATCTGAAATATCTTATTAACAAG  
AAAGTAAAAATGTTATCAAAAACACTGTCTCATCAAAAAGATTGAGAAGCCAATTT  
AAAGAGTCTCACACTGGACACAAAAATAATTTGAGCTTCAAAAATAACTGCAAGGGATTA  
AAACACATAAATTGTGTTAAAATCCACAAGTTCATAATGATACTAAAAAAAAAAATCTT  
GTTGGTTTCCTCTAGAGGCTACTAGAAAATCAGCTCATTATTTCTGATATTGGTTAAAT  
AGAAGAAAGAAAACCAAGCAT

## Sequence 1193

CCCTTTTCGAGCGGCCGCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TCATNCAANAAANATAATTTTACACTTATTCTTTGAAAGANAAATTCTATGGAATTTNT  
TNTTCTAATTNAATTCCAAAATACATTCTNTNANCCNTATGCCCTNATACTAGNAACTNG  
ATGGTNAGCGGGTAAGTAGGTAGTAGTANAANAACANAANGGGAATTNGGGGAGCANAA  
AAGGGANAAA

## Sequence 1194

CCCTTAGCGTTGGTCGCTGGCCGAGGTACATATACATTATNGTAATTA AAAAGCGTGCAT  
GTGTATGTATTA AAAATAATAGGTATATAAACAATACANTATNTACAATNNAACACCT  
AAACGCAGAGGCTGCTGTTATC

## Sequence 1195

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGATA  
GATCCAGTNGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTG

## Sequence 1196

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGGAAGTTGCTAGGAAATANAGCAGGTAA  
TTTNTCGTTAATTATGGAACCATNGCAACACAGTAAATATTATGTCTCTNAATTTGTCT  
TTCAGTGNTTTTTTGGCATGANTGTNATGGAANAGTAAACAAA

## Sequence 1197

CCCTTTTCGAGCGGCCGCCGGGCAGGTACAGGAAGTGTCCGGAGGAATATATAGAAAAC  
GCTAGGCTTAATTCTCAGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTTA  
CTGTATACACTTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1198

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGCCCGCTCCCCCGTCCATTCCANTTTCTG  
CCCTCTACTGGCCATGACGGTCATCACAGTGCCCTCCTCATTCTTAACCTTTTAAATACAC  
TTGAGACCCGCTGATTAATNTTGACTIONGAAAAACAAAACAANAACAANAANAACA  
AAAACAAGACACTCACATACAATGTTTTTAAATGCTTGAAAAGTACCTGCCCCGGCGGCC  
GCTCGA

## Sequence 1199

CCCTTAGCGTGGTCGCGGCCGAGGTACCACATTCTGCTCAGAAACTGCTCACTTCCTTA  
AATTGCTTTTTTCCCCAGCGTGAAATGTATCCATTTATAACTTGCCTATTGCCTGTTT  
TATTAGCATCCAAAATGTGGAAGGCCCTCCAACCACCATTTCTNGCTGTGTCCTTAGGA  
TGTGCAGNAAAAATATAGACCTAACAGNTTATGTTATAGAATGGGTTTATTACTTTGG  
GTGACTGTTTATAGTTTTTAAATAAAAGACTGAACATTTTNTCGAAAAAAAAAAAAAAGA  
ANAAGAAAGTACCTGCCCGGGCGGCCCGCTCGAAAG

## Sequence 1200

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGG  
ACGCTGACTCTGGAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTCTTACTGTGAC  
GATTTTAGGCAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAAAATGGAAT  
TTATAATAGAACCTACATCATGAGTTGGTGTGAAGATTAAATATATTTATATCCCGGCTG  
GGTGCAGTGGCTCAACCCTGTAATCCAGCACTCTAGAAGGCCAAGACAGACAGATCACC  
TGAGGTCTAGGAGTTCAAGACCAG

## Sequence 1201

CCCTTTTCGAGCGGCCGCCGGGCAGGTACGGAAGAGTAAGTGGGGAGGGATGGGAATGGT  
TCCTTGAGACAATCTTTTACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTG  
ACTTATTTATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTCTTGAATGGTGTGGTGA  
AAATTAAGAAAAAAAAAAAAAAGAAAAAAGAAAAAAGTACCTCGGCCGCGACCACGC  
TAAGGG

## Sequence 1202

CCCTTAGCGTGGTCGCGGCCGAGGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTT

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Table 1

AAGGGGGAAATGAAGGAACTTNCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGA  
GAACCATGTGCTGTGAGGGCCCTCCGAGTCCATCTGTTTAATCCTGTCATTGGAGACTTG  
AGAAACCAGAGCCCAGAAGGGAAAAGTGATTGTCCCAAGATCACACAGCACTGGAGAAAG  
TGGATGAGGAGGGGCTGAAGAAGCTGATGGGCANCCTGGATGAGA

## Sequence 1212

CCCTTCGAGCGGCCCGCCGGGCAGGTACATACAGTTTACATTGTGGTAACAAAGTAGGAC  
ATGCTATGAAGGCCCTTTGAATTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAAT  
TTTTAAATAATATTGCTGGTTTTTGTCTCAACATGAATTAATAATATGGTGGCTAATGTGCA  
GATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTTGTTTAATATTACAA  
ATGCATTTAATGACACTTAAAATTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1213

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTT  
CTAAATGCCATTCTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTTAATTCCA  
GGGCTGGGCGAGGAAAAGTGAAAGAGAAATCACAGAACATCCTGTAATGACAGAAAAAAGT  
CACAATAAATGGTGGGATTATGTCAAAGGACATGGGATTCAACTGAAAGATCTTCCAA  
TAGCCAAATCTGAGAAAAGTTAAGCAACAAAAAATAACAAATCTTATAATCTATAGA  
AAAAATATGAATGTATA

## Sequence 1214

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTANAAATNGG  
CGGCAGTTTATTAGTCACAACCTGCTCACAGGGAGGGAGGTCACCACATGCCATGCTGGGG  
TCACAGGANAGTTGCATTTGGGAATANAGTGAACCANTAGGGGCTGTGGAAGGCAGGCTT  
TGCAGTAACAAGAGGAAGAGGCGATTCTGGCTCCTCCAAATGTGACAGGCTTGTTTGAA  
TAATTTCCAGGCTGGAGGGAAGTGAGCCACGTTGANACCCANGGAG

## Sequence 1215

AGCGGCCCGCCCGGGCAGGNACAATTAATTGTGTCTTGTGACCTGATGATTTTNGAAAA  
TTTGCTTTTCTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATTT  
TGGGCTAATGTTGACTTATAAATAAATAAAATTTAGAAATATATTCATGATGACAATTT  
TGTTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTTCAAAGGTGAAATTTTGACCTT  
TGTATTAACAAAGCCTCAAGAAAAGAGAAATTCTGCCTTTTAAACATTGGTTTTCTTGC  
AT

## Sequence 1216

CCCTTAGCGTGGTCGCGGCCGAGGTACANGGAGGAANTNAGANGTAAATNNAACCAGAN  
CTGGATTACTCCGGTCTGAACTCANATCACANTAGTGACNTTAATCTGTTGAACAAACTG  
AAC

## Sequence 1217

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTGTGCTNTAGCCTTGGTGACAGAGCAGAGA  
CTGTCTTAAAAAAAAAAAAAAAAACANAAAAAAAAAATTNATTAATAATTTAAAAAAAAATGAAA  
AAAAGCTGCATGCTTGNTTTTTGTTTTAGTTATTCTACATTGTTGCCATTATTACCAA  
TNTNGGGGAAAATNCAACTTACAGACCAATNTCAGGAGTTAAATGTTACTACGAAGGCAA  
ATGAACATATGTGAATGAACCTGGTAGGCATTATTTATTGAATTNTNANCATTCCANATG  
TCCAGCACATTTTAAAT

## Sequence 1218

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTAAATAATCTGACTTTTCTATGATTTG  
GCTTTTCTGCCTTGAGTAACTATNTAAGATATCTAGCGTGATNTTNTTNTATNTGGGCTA  
CTTTTAGAACAACAAACANAGGTNTTTANAANAAACCACTTGCCACANGGNCTTTTGAAC  
CGTTTACCTAAGTCAAGTGTAATTGAAAAACATAACCAAATGCACCANGGGTNTATTGT  
NAGATAATAAAA

## Sequence 1219

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTA  
TTTGGGCCCTAACATAATCCTGCTCANAGCGACGGAAAAAGGCAAGCCTTTTCAAACAT  
AACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAGAAAGCATCTAGATAAATAT  
CTATCAAAATTAACTTTAAANAGAAATACTCTTTTCTTAAAGCCCTTATTTTTTAAAG  
CACTANAAAAAAGTTACTATAAAAAGTGGTGGTCTGGGGGCTAAAAACAAAACAAAAA  
AATCCTCTTTTCTACATTTTTTGTGTTT

## Sequence 1220

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTATCAACTGATTTGGTCAGTTGCTTCCA



Table 1

ATGCTGGTTGATTTCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGGAAAAA  
AAATCCAAATAATAAAGTGACATATTGGTGTTCATAAAAAAAAAAAAAAAAAAAAAA  
NAAGTCCTTTTTTTTTTTTTTTTTTTTTTTTACTTNATAAAANACNGAGTTTTATTCA  
NATGTNTNTTTTTGNGNCCCCACCNTTTNNATGTTTGACCACCNTTACNACTNTNTCCT  
NTNATAACATTNCCATACATACTTAAAC

Sequence 1221

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCAGGCCAATCAAAGTGTCTCAGGAA  
TTAGGAATTTACACATAAAACCTGGAGAGATAGCACATGCTCTTTCTTTCTTCTGGAC  
TGTGAGCTGTACCTGCCCGGGCGGCCGCTAAGG

Sequence 1222

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTATTT  
TTTTTTTTTTTTTTTTTTTTTNAACAAACCCTGTTNTTGGGNGGGTGNGGGTATAACTA  
AGTTGANATGATATCATTACGGGGGAAGGCNCTTTGNGAANNANGCCTTATTTNTTTG  
TCCTTCGNACTGGGCTGGAANACCTAAACTACNTGTAAATGTAAGTAGNGACCAATA  
AAAAATAAGGNTACCTTAACCTTCTTTTTCT

Sequence 1223

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAACAATTTGTTAAGATAGATCTCACCT  
TGTGTTCTTACTGAAAAAAAAAAGAAAGAAATAGAACAGAAAAGCAATTGGATTTAA  
TTCTGGAAACTCCTTTCTCTTCTTACATCCAGGAAATTTGCTGTTTATTTGAAAAGCA  
AATTTAAACCTATTTAAGGGAGAGAGAGCTCTTGAAAAATTCATTATTAGTTCTGGAC  
CAATGTTATTTATAAGCTATTTCAAATGATAAAAAATAAATGCATAATACATTTGAT  
GATAGAACATTTTCTTTT

Sequence 1224

GCAGAAATCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTCAAGACCTCACTTTTATC  
TGTGAAATGTGGGGAAGGTTTATAAGTAAATGAATGAGGGGTGAGGTTGTTACCATTAAT  
GNGCCTTGAAGTNATATTTGTGGATAGCTAAAAGCAATTTTTGGTTTATTTGGTTATTC  
TTTGGTTA

Sequence 1225

CCCTTAGCGTGGTCGCGGCCGAGGTACATCATTTGATGTATGTTTTGTTTTTTAACAT  
AAAAGGATTATATCCTTTTCCGCCAGCTGTTTCACTCAATACATTGTGAAAATATTTTC  
ACATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCACTGTATGA  
TCATCATTTAATATTATTATCAATTTGTATATTTAAGTTAGAAGCTTTCCATTACCATA  
AACATCATTATGAATGAGCTTTCTTGAAGTATTTTAAATATACTTCCTTAGGATAAATG  
CTTAAAGTAATAA

Sequence 1226

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACACTATGTAATTA AAAANGCGTGCA  
TGTGTATGTATTA AAAAATAATGGTTATATAAACAATAACAATATATACCAATAAAACACC  
TAAACGCAGAGGCTGCGTGATATCCACAATAGTAATACCAATAGTATTAATGATGNTAT  
GTAAACACAAACAAAAGCAGCGGACCGTATTAATAGGCAAAACACAAAAGCACACAAAA  
GCAAAGCAAAAAGCCCGCCAGTAATGT

Sequence 1227

CCCTTTCAAGCGGCCGANCGGGCAGGTACCCGATATGTATGTTGAATTAAGAGGATTTT  
AAAAAATTACCTTAAGTCTTTGACATNACAGCCCTGTCACCTCTTGTCANAGTTTGTA  
TGTGTTGNTAATNGGAATGTCTATTTCTTTAAAGAGCAGAGAACTACAGTTACAGGGGT  
ACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAGTCTGTCTGTGCTTT  
ATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAATGGACCATTCCAACCTAAGTTA  
TCTNGATATACTGGGATTACAATA

Sequence 1228

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTANANA  
CAGAGTCTCCCTGTGTTGCCAGGCTGGTCTCAAACTCCTACGCTTGAGCAATCTTCCCC  
CTTGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCAATAATGAT  
TTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTGGACACAAAGGCANACAAA  
AGTTTGACAAAAGGCATTTTGAACTAGGACCTTATTNTAATATTAGTCTAAACAGNG  
GGA

Sequence 1229

CCCTTCGAGCGGCCGCCCGGGCAGGCACAGAAAAAAATCTACACCAGGTAACACTGGA



Table 1

GGATGCAGGGCTACATTTGCCACTGAAGAAACATTGTTCTCTTGCATCTGAATTCAGTG  
CTTTCCAAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTTATTTCTTCTTCTT  
TCCTCCTTGAATTCTAGTACTTTGTGAAGTGTGAGGTGTCCCTTCCTAAGTCACAATTC  
ACACTGATGCATACACTATAGTGAAACACTGGCTTTAAGAAAACTGATTAACAGAAAACC  
GGCAATTGTTATTTATTTTAAA

Sequence 1230

CCCTTTGAGCGGCCCCCGGGCAGGTACAGGTTCTAAAACGAAAGTATTTGGGTAGTCCA  
CTTAGTGATATTAGTGGATNGTGTAGACAATAATATTAGTCCTAGA

Sequence 1231

CCCTTTGAGCGGCCCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACT  
TCTAAATATTGATCAACCATTAAATAATGCTTATAGGGGTAAAAGAAAATNNTTGAAG  
CACTGAATTCAGTAACCTGGGTGCTGCTCAATTTTGTCTCACTACTTCATATCTTTTATG  
TAGAATAATTCCTATNAACATGTTCCCTAAATTCCTATCAGTTTGTAAAGGCAATGGATT  
AAATTATTCAAATGTAGCTATTTAACCCTCAGTNACAATGCCTAGAAACCTATTTATTCA  
TCTGTAATATTAAGAAGGCTGAATTTGATTGGATCTTGAAAAATCC

Sequence 1232

NAGGGGGGCCGGAATTTGGGGGGCCCCCTTCTTAAGAATGGCCATTGGCTTCCGGAGGC  
CGGGCCCCGGCCAGGTTGGTGGATTGGGGAATTATTCCTTGCCAGGAAATTTCCGCCC  
CCTTTTAGCCCGTTGGGGTTCGCGCGGGGCCCCGAAAGGTTACCATTTTTNAAAAAAGG  
GGGGGGATGGCCTTAAATAACCTTTTTTNAAAAAANAGGGTTTTTAAAGAAAAATTTA  
AAAATTTTTTAAAAAAA

Sequence 1233

CCCTTTGAGCGGCCCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC  
TAAATATTGATNCAACCATTAAATAATGCTTATAGGGNAAAAGAAAATTTTTGAAGCA  
CTGAATTCAGTAACCTGGGTGCTGCTCAATTTTGTCTCACTACTTCATATNTTTTATGTN  
GGATTATTCCTATAAACATGTTCCCTAAATTCCTATCANTTTGNAAAGNCAATGGATTAA  
ATTATTCAAATGTGGCTATTTAACGGCCAGNAAACANTGCCTAGAAACCTAT

Sequence 1234

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTTTTGCNGATTGCNNNANGANTGCCCCATG  
AGGGGGGANAAAAAAATNTTTTTTTTATTATNTTGGATCTAGCCTANNTCTATTTTC  
CACCTGCCCCAATTAGGTATTTCCANTTGCNACCGGCCCTAATTCANAATTAATTTGT  
NCCTNTTATAATTNGTTTNCNTNNANTCCAATTGAAACCCCTTTTGGGGTTATGNNTCCN  
CNCACACTTTTTTNTATTGTTTAAANNCCANTAAAAAACANTNTTNCNTCGGNTATATAAA  
ATAANACGNCCTTTTTACNTTATNGTTAATTAAAAANCCNCAATTCCTTTTNGTTNGNCC  
AACCCACTTGGAAGAAANTTCCAANTAACCTCTNCCTTCCACCANGNGANGGACCAAAANN  
AGGAAAGTAACCCCTTANTGNAAAAGGNNTGGGGGAAANNTTNGGGCCTTTTGGNGG  
TTNCCGNAAAAANAAGGGGNTAAC

Sequence 1235

CCCTTCGGCCGCCCCGGGCAGGTACTCTGTAAGTCTGGAAGAACAGGTCACATTTATTCAG  
ACTTCTCCCCACAATTTTTAATCAAGCACCTCCAGTAACAAGTTATTTAATTAGATCG  
ATTTTAAGTTGACAACAGATGTATCAGATGAGGAAAAAATTGAGCATGTGTGGTGTGATT  
ATATAATAGAATTGGTTTCTATAAACCATTTATAGTATTCAACTTTTATAGTATTACTTT  
TTCAGATGTATGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGTAGTGT  
AT

Sequence 1236

CCCTTAGCGTGGTCCGCGGCCGAGGTACTCGGATCTNTTATNNNGTNNAATAANNCTCT  
TTCGTCTACAAGCCACACTTATNCAAAATNTGTGGACAACCTCACACTNGCTATNATACC  
TGCTTANATTCTCCTANTTAGTCCCTGAGGGTTTATACCTTTTATTCTTTTATTGAAATT  
TTAACAGAGGTTTCTGTGCGGAAGCAGAGTTAAATGCCTATGTTNACTCCATCATGGTTAT  
CTGAAAGTCTGAGGNGCAATTTCAAAAACTCA

Sequence 1237

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGA  
GNGNATTACTANATAAATGACTGGGGCAANGCAAAATTGAGGAGGAAATTANAACTGTT  
TGACAAACTTTTTAAAGAGCCTACTTTGAAATNACAGAAGTCTTGATNAATNTTGCAAT  
AATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTT

Sequence 1238

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCGAAACTGTNTACACCCAGACTTTATTCTTCTACAACCAATTCCTCAAACA  
CACAATCTGAACAGTAGCAGTGAAAGGGAGTTTAAGGTGGGGGTGAGGGAGAAGGGAGTA  
ATATGGTTTTTTAGTAATATAGTAATTTACA

Sequence 1239

CCCTTTGGCCGCCCGGGCAGGTACGCGGGGCGGTATGTNGGGCCAGAGCATCCGGAGGT  
A

ANANAACCTNTTTTTNTNCTTAGGAGCCACTATGAGGAGGGCCCTGGGAAGAATTTGCCAT  
TTTCAGTGGAAACAAGTTGGTCCGTTACTAGCTAAGATGTGTTTTGTACCTCGGCCCGC  
GACCACNCTAAGGGCNAATTTCCAGCACACTGGCGGCN

Sequence 1240

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGT  
TGGGGCGACCTCGGAGCAGAACCCAACCTCCGAGCAGTACCATGCTATATTGGTCACTGT  
AGCTCTGTAAACATAGTTTGAAGTTGGGTAATGTGATTCCTCTAGCTTTGTTAGCTCTGT  
GTTTTCACTTAAGTATTACTTTAACTATTAGGGCTCTTTTTTGGTTCCATATAAATTGTA  
AAATAAATTTTTCCAGTTCTGTGAAGAATN CATCGGTAGTTTGATAGGAATAACATTGA  
ATCTGTACCTGCCCCGGCGGCCGCTCGAAGGGCGAATTCCAAGCAC

Sequence 1241

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGGACTGGTC  
AACATGGCGAAGCCCCATCTCTACTAAAAATACAAAATTAGCTGGGCGGTGGNTGGGCG  
TGTGCCCCGGTAATTAANTNCCCNANCTTACCTTTGNGGAAAACTGAAGGGCCAGGGA  
AGAAAATTNCNGTNTTTGGNAAACCCCNCCNTAAGGGTTGGGGAAGGGATTTGGCCAAG  
GTTGGAAGTTTCAAAAAGGAATNTGGCCAACCACAAGGNTGNCCAACCTTCNCCAAAGCC  
CCCTTGGGGGNCCCCAAAANNNAAGNTTGGANGTAACCTTTCCCCAATTCTTTTNAATNAT  
ATTACANNATNTAGATANACNNATAANAGNGANNNGANANTGGGNTNACCCCTTNGG  
GAGGCNCCGGNCGNNAACCCCCANCCNNNCCTTAANAGGGGGGGGGCG

Sequence 1242

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGACTGGTCA  
ACATGGCGAAGCCCCATCTNTACTAAAAATCAAAAATTAGCTGGGCGGTGGTGGCGTGTGC  
CCGTAGTAGTCCCAGCTACTTGGGAAGACTGAGGCAGGAGAATCGCTTGAACCCGCGAGG  
TGGAGGTTGCAGTGAGTCAAAGATTGCACCAGTGCCTCCAGCCTGGGCAAGAATGAGAC  
TCCATCTCAAAAAAAAAAAAAAAAAAAAAAGTCTTNGGGCCGCGACCACNCTAAGGGCG  
AATTCCAACACACTGGCGGNCCGTTACTAATGGATCCCAGCTCGG

Sequence 1243

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCNTGAA  
GGGAATCATANGAAAAATTTGATTTTTGTGTATGGTGTAAAGAAAAGATTCGGATTTTCA  
ATCTTTTTGCCACANTGGGATTNTCCAGCGCTTTTTTCCCAACANCCATTGTTATTTT  
GGAAAAGGAAGNAACCTTACTCNTNTTTCCCGGCTTTTTTGGTCGGGAANTATCCTTTT  
GGGGNCAAAACCTCTTATGNTTTGGGNAAAGAGNGCCCTTTTCACTTTTTTGNCTT  
TTTCAACCTCTTNCAATTGGGGGTCTTCCACCCAATTAACCCAAAAGGNTTGAACCC  
CCTTNGGAAGNTTNCANCCCTTCCCCCAATTCCTTATCNNCCTTGNGAATTNCAAAAA  
AACCNTTGGTTGCTCCNGTTTCCGTTCNTTTAAANTTTTTCTCNCCGGGGNAAGTGG  
GAAACCTGGTTTTTGGCNTTCCAACCTTNGNCATTTGNCCATTGGAATACCCCTCAAGN  
AAAGNAAAAGGNCTTNGNTTTGTNNGGCCNTTNGTTGGCCCCAANG

Sequence 1244

CCCTTAGCGTGGTCGCGGCCCGANGTACAAATAANGTCTTCCAAGGGTTCAGAATAGAAA  
ATGATNTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATTCCTTGGGGAAATGTACGTA  
ATCAGTATATTCTGGGAAACATANTANAGAATGAATNNATAAATTNCATTGAATTNGGA  
ATATGTTGTCCTTCTCCCTGTAACCTAATGCTATCAAGATANAGTAGAAATACCACATT  
CAAAANCAGCTGGAGTANACAGGTCTTCATAGGCTAGCTTGGAAACCTAATAGCTATTAA  
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACANTGATCTTTTGAC  
TT

Sequence 1245

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGTGTCTTTCTTATAGTCNGTCAATGCTG  
GGAAGTAACAGGCAGATGTGACTTCACTTGANCAATTTGGANGAANCAAAAAAGGTTGCGC  
TTGNTCGNNCCTTAGGGTTTAGATGGGCAAGGACCTTGCTTTTTGCNTCCCCAATTTCTT

Table 1

AGGGTAGNTGTTNTTCTTTGNGTTGCANGGGATNNGTANACCGGTACATCCTTCTTGNNG  
GAACCAAGGGGNNNACNTTATGAANTGNAAGGGGANGTTCCTTTGTAGTAAANGGCCT  
TGGATTGGTTTTCAAANNGGNAAGNTGGGGTTCCACCA

Sequence 1246

CCCTTAGCGTGGTCGCGGCCGAGGATACTTTTTTTTTTTTTTTTTTGNCTAATTACTA  
CCTTNTATTCTAATTGTGAACCATGGCCCTGAAAGCTTGATAANCAAGACTTGGCTGAAN  
CCAGAAGGGGNAACATAAGTGNNGTTCGGCCAAGNAAAGGGATTANTTGGGGATGNGAAA  
ANTCAANTGGNCTTNTTCCCTT

Sequence 1247

CCCTTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTATTTTTTANATGA  
AAAANCTGTAATTCTTTATTTGAAACAANTGCNTTCAAAGAANTNAAACACTTCAAGG  
ACTTCTAGTAAACATAAAAGGTCNAACAACTGTGGCAAAAANTTTTGAATTNGTANAT  
AAGCTAANATAGGGGTAAACNAGTACCCAGGCCANAATTAAGGNGGNATNNCNTCAANT  
ACTTCCANTCANNNAAAAGGG

Sequence 1248

CCCTTTCGAGCGGCCGCCCGGGCAGGTNCTATCCCTATGAGGCATAATTATAACAAGCTC  
CATCTGCCTACGACAAACAGACCTAAAAATCGCTCATTCATACTCTTCAATCAAGCCA  
CAATAGGCCCTTNGGNTAGTTAACCAGCCCATTTCTTCATTCCAAAACCCCNCCCTGNAA  
AGCATTNNAACTCGGGNNGCCANNTTCAATNTCTTACAATNAAATCCGCCNCCCAACCGG  
GGCCTTTTAACAATTNCCCTNCCAATATTACCTTAATTTNCTTGGGCCCTTAGGCCAAAT  
AANCNTGCAAAAACCTTAACGGNAAACCGGGCAACCTTCCANCCCAAGGNTGCGGCCAAT  
TTCNATTAATAATTNCCCTNCNTTCTACCAANAGGGGA

Sequence 1249

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATGTTGCTCTCTCAGTGGCAACAATGAAGT  
TTTTGCAATTCTAGAACTTGGATTTTTTTTTTAAACAAAAGTCCCAAAACACCAAAAATGT  
AAACAAGATANNGAGATTAATATTGNAGTGGNNGTAATTTAATTAAAGTTATATTTGGG  
TTAATTTTAAACACTGAAGTCTTATTGTTGAACTTATTTTCA

Sequence 1250

CTNTACATGCATGCTCCAGCGGCCGCCATGTGATGGATATCTGCANAATTCCCCTTAGCG  
TGGTCNGCGGCCGANGTACTTAGGTGCCTACAACATAAACAGCA

Sequence 1251

CCTGTAGATGCATGCTCGAGCGGCCNGCCAGTGTGATGGATATCTGCAAGAATTCGCCCT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAG  
AACACTACGAGCCACAGCTTAAACTCAAAGGACCTGGCGGGTGCTTCATATCCCTCTAG  
AGGAGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTCAGCCTAT  
ATACCGCCATCTTCAGCAAACCTGATGAAGGCTACAAAGTAAGCGCAAGTACCTNGGCC  
GCGACCACGCTAAGGG

Sequence 1252

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATTATTATTTCAAATTTAAAACTTCTTC  
TTTTTAAGAGATAGGGTATCACTATGTTGCCAGGCTGATCTTGAACCTTTGGCCTCAG  
ATGATCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTACAA  
GTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCAGCATTGGCCAGGG  
ACTGTCAATTGCCTTAGTTTTATTTTTCTGTTTTGTTTTTTTTGTCGTTTTGTTTTT  
TTTGAGACAGCGTTCTTAGTCTGTCGCCAAGGCTGNGAGTTGCAGTTGGCCGCAATC

Sequence 1253

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTACTT  
TANTAGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTNTGACCTCAGGTG  
ATCCACACGCTTCANCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCAGC  
CTAAATATTTNTTTATAGCAATGCAAGGATGGCCTAACACACTGCCTAAATCAAATTTGC  
TATTCACCTCAAGGGTATTTTCACTTACCTGACTAGCTTTTTTGGGTGCATNTGGAACATA  
ATGTA

Sequence 1254

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTTTATCTTGGGATAAAATGGCTAGAT  
GAGTATGGACAGGGAGGCAGGGCAGATACAGTCTTTGCTTCTGGTTTTAAGAGTTCTTCT  
GAACCACAATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTGAGAT  
CTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGGGAAGAAATGTTA

Table 1

TTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTTGCACACTATTATCCAATTGGAT  
AGACCCACATCTAAATGTCTGCAATTACAGTAATGTCAGCTGGGCATTGGTGGCTCATGC  
CTGTAATCCCAN

Sequence 1255

GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTANAATAACAAAAATTTTTACTNAAACATAAANATTN  
CAGANGTTTCCNNACAANCCNTNCAAAATGGTCACAANCTTTTTTNA

Sequence 1256

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTTTTTTTTTTTTTTTTTTTAGNT  
TTCCTTTTAAATGAGCTCACCTTTAACACAAAAAAGCAGGGGTGATGATTTTAAAAA  
AGGAAGTGGAATAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCTANCANTCT  
TTCTTCANCTCACTGGCTCTCTANATCCACTGTGGTTGGCAGTNTGACCAGAATCATGG  
AATTTGCTANAACCTGNGGAAGCTTNTACTCCTGCAAGTAAGCANANATCGCACTGCCTCA  
ATAACTTGGTTATTTGAGCCNCGTNTTTTGCAAAACTACTTTTTCTANTTTTTCAAN  
AATTTACTTTCAATNGTTTTAAAAAA

Sequence 1257

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTT  
TCAAACCTCAGTTTGAAAATGAGAGGAAAACAAAATAAAATGATTTACATAATCAAAGGA  
TTAACTGATACAGACTTTTATTCTAAATGCTCACAAGCACAGAAACCAACAAGAAATCAG  
ATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGNGGCAGCCACATAAGCCGCT  
NTTCACACCTGGCTGCNTTCTGCCAAGTTTAGTCCTCAAAGAGAAAAACAAGGGAGGNAA  
AAGACCNAAAAAACAACAAA

Sequence 1258

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTAATATAACTAAGATTTTGCCTTT  
ATTGGGTAGGTATCTTTTTTTTATTTTAGCACCTGATAGCTGTCTTCTACTGAGTAA  
GAATTATACTTTTAGATGTCACAGAAATTAGAGTATTTATTGTCAA

Sequence 1259

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCAACAATTCCAAAAGTTTTTGAAGTAAAT  
AAGCAAACCTCACTAATGATTATGAAGTGAACATAACCAACAGGCTGTTTGGAGAAAAAC  
ATACCTCTTCCTTCAAGTAAGTTTGCCATGCCTACCATATCTGTGAGTGGTATTCTGAA  
TGGCCAAATGGCCCTGGTAGGACTATGGGTCTGAAGTCGTGCTGCCTGGCTCTGGCCAC  
ATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATATTAGAACTGCAGGGAGTTCCTTT  
TAGTCCTGGCAATCTGAACCTGATTTTTTG

Sequence 1260

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGTGGGATTGTTAGACCATCCAAAAAGGA  
AGTGCACCTTGGAGTCTGTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAA  
CAAGATTGCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGC  
TCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCTAAGGAAAATTGCT  
AAGTCAGTGTTACTCTCTAGTGATGTTGAGAAGTAGAGGGATTTCCAGACCTTTTACTTT  
TTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGTCAAATCCATCTCACAGNATTTGTTTT  
TGGATC

Sequence 1261

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTGCC  
TCCTCTGACTATATTTTCAAATAGTCTGTCTTCAAGGTCAGNAATTCTTTCTTCTGGCA  
TGATCAACTCTGCTNTTAAAGGACTCTGATGCATTCTTCAGTATGTGAAGTCTTTTTTC  
AGCTCCANAATTTCTGCTTCATTCTTTAAATCAATCTCTGTTAAATGTATNTGGTAA  
ATTCTGAATTCCTTCTCTTTGTTATCTTGAATTTCTCTGGAGTTTCTCACTTATTTTG  
AATCTGTCTTGAAAGGTCACAATCNCCTGTTTTCTTAAGGGATTGGGGCCCTGGGTAAC  
TTATTTTAAAA

Sequence 1262

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGAC  
TTCTAGCTTAGTGAGAATGCAGTATACTTTTGAACCTTCGTGCAGGAATCCCTCAAAT  
GCTGTAAGTGAAGTGGTCAAGTTCAAACGACTTTTCTTGAGGGAGTATTTTAA  
TCGGACAAGGGAACCTTTTTCTTTGGGCAATGGCCAACAGGACTGAGAAGCCAGAGAG  
CTTGACCTGAGCCATCTAGCCGTGAGAGTAACAGTCCTAGGAAAATAGATGGGGGCTG  
GGGGTAAGGAAAT

Table 1

## Sequence 1263

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTTTTTTTTTTTTTTTTTAGGGGTT  
TTCTTTGTAGAGACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAACATCATGGGCTC  
AAGTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGTCACCATGA  
CTGACCTATATTTAATTTTTAAAGATTAGACTGGTGTAGCTGTAAATAGTTTGAAATA  
CCTCTCTGATAGGTGCTAGCTTATCGTTACTCTTAGTGCTTCTTGCAATTGTCAT

## Sequence 1264

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTGTTTAAAGAGAAATTCCTAAACTGGAT  
ATATGTGGCAGGCTGAAAGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTG  
GCTCATGCCTGTAATCCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGCCAG  
AAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAAAAGATCENNAANT  
NAATANTAATNTAAATTAAGTTCCTTTGGGCCGNNACCACNCTAAAGGGCGNAANTTTC  
CAGCCACCACTGGCCGGC

## Sequence 1265

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTGTTAAAGTGAGTCAGATAAATCTTC  
AATTCCTGGCTATTTGGGCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTT  
TGTTTCTAGACATCCTTGAATTACACCAAGAACATGAAATTTAGTTGTGGTTAAATTAT  
TTATTTATTTTATGCATTTCATTTTATTTCCCTTAAAGTCTGGATGAGACTTCTTTGGGGA  
GCCTCTAAAAAATTTTTACTGGGGGCCACGTGGGGTCATTAGAAGCCAGAAGCTCTN  
CTCCAGGGCTCCTTCCCAAGTGCTTANAAGGGTGCTTNTAGGGAAACATTAGGATCCCA  
GCCAGGGGGCT

## Sequence 1266

CCCTTAGCGGCCGCCCGGGCAGGTACTCAACACTGATTTGAGAAGAAAAGTGATTTGC  
TTACCTGTGATTTTGAAGCTATATAGTGAAGTTTGTGCCACTTTTGTGTTTCTCAA  
ACATGCAGAAGTAATGAGGTTTGAAGAGACATGAGACTATAAGATGTCTGTCTGCTGCTG  
CCAACCATGGAAAAGATGTTAAGATGTCCAGCTGCCCATAAATCATATTTTCAAAGTGT  
GAGACACGAAGAATATCTTCTCTTATTTGGAAATATGCTGAAGGATAGGAATAAAGAAA  
AGGATTNCAGTAAATGGGAGNC

## Sequence 1267

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTGGNTTCTGTAA  
ACTNTNATTTTACACTTATGGGCCACTTGCCAACCTCAGGGGNCCTTGGCTTCTTGACTCA  
TTTTCTACAAAGGTTTACTTTGGTTGTAAGATGTAGTTAANAGGGGTANGAANAATTT  
NNGGAATNTATTTTNCCTTGGCTTNGGTNAAAAACCTCAACAAGTTTACCTTTNCCCAG  
TTCCCAATTAATATTAANAANTTNGGNCAACCGTTTTGTACCNCTCNCCTTTTCNAGG  
AAAAAATTCCTTATTTGGNACCTTNTTCTTGGNAAATTTTTNTANATAAANAANAANTG  
GGGCCATTTTTNTTTTT

## Sequence 1268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGCTTTGCAGATGTGATTAAGCAAA  
GGACCCAGATGGGGAGATTATTTTGAATTACCTAGGTGGGACTCCACGTCATCACAAAGG  
GTCAGAATCCAAAGAGATGTGAGAATGAAAAGCACAAAGTGAGAGCAGTGGGATAGCCAAA  
TTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTNTAGAAGCTGCAGAAGGCCGGG  
GTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCACAAACCTGCCACTCACGGTAGA  
CTCTCGATCTCCGGGCTGTAGAAATAATACATCTGTGCTATTTTAAG

## Sequence 1269

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGANATAAGATTTAAAAGCATTTGTAATTGTATACTTGCANANGTCCGTNCTACAT  
TGGCATTTTGAACAAGGNACATTAATTGGTT

## Sequence 1270

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CAGAAGTATNCTCTCCTGAAATTATTANGCAGTACTTGNATCAACCACTCCGCCGTTACC  
CATACCAAAGCCGTCGCCTTGGNCACCG

## Sequence 1271

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTTGTAGTCAAGGGATTGTTTGATACTCTTT  
AAGTTCACTGCCAGGCCTACCACTTATCTGTGCCAGGAGGAGAGTTCTTGTAAATGAG  
AGGTTTTTAAGACGTCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTTTGGAGCT  
CAGGATATTAACCTGAGTGGTGTCAAATATTNCCAGGATCAATTCGACAATGCCATGTGT

Table 1

ACCTGCCCCGGGCGGTGCGNTCNAAAAGGGCNGAATTTCCANCACACTGNCGAGNCGTTACC  
TANTTGGATTCCCGAGTCTTCTGNTTCCAAAANTCTTTTGGCGGTTA

Sequence 1272

CCCTTAGCGTGGTTCGCGGCCGAGGTAATGTCACATTNNCATAGGAAAGGTTATATA  
TACACTATACACTTCAACCTTGAATGTGGACCCAAAAACATTCTATTTTTCAGTAATC  
NATTGAATTTNGGTGAGGGGTCCNACACCCTCAAATCCTAANTTTATCACANAAAAAGCC  
CNTNCTTGGCTGCCAAGCGCTGGCNGATGAACCTTGTNTTGCTGNANCTCTTNATGANTT  
GGATNCCANAGTNTCNTGATGATCCTNTTCAATGTTTANGAGCATNTGACCNGNCATGNT  
GTAGNGGANTGACTTTC

Sequence 1273

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAAAAAACNTTNNAAATTAATAAA  
ACTCAAAAAAAAAANAAAAATGAGCATTTTAAAAAANGGAAANANTTNNAANNNNNNNNNG  
GNAAAAAAAAAAAAAAAAANNGNAAAAANNAANTNNNGNATTGNTTTTTTGGCAANTNANC  
AANATCNTCCCCCTGAAAAAAAAAAGTTTTTTTTTTT

Sequence 1274

CCCTTAGCGTGGTTCGCGGCCGAGGTAACAAACAACAGAAATTTATTGTCTCTCAGTTC  
TGGAGGCTAGAAAGTCCAGAATAAGGTATTAGTAGGTTTGGTCTTTTCTGAGGGCTGTGA  
AGCAGAATCTGTTCCATCCCTCTCTTCTGTCTTCTATCTGTCTATGTCTGTCTTTGTTT  
AAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGGCCAGTCTAATGACCA  
GATCTTAACATTTGCAAAGGCCCTATTTCTCACTAAGGTCGATTTACAGGTATAAAGGG  
TGTAAGACTTTAACATCTTTTGGGGGAAGACACAGTTCAATCCGTAACAAGATGTTAAGT  
CCTTTCCTCTCCTAAA

Sequence 1275

ATAGGGGCCGGAAATTGGGGGCCCTCTAAGAATGCCATGGCTTCCGAGGCCGGGCCCGG  
CCAAGTGGTGGAAATGGGGATATTCTTGCCAAGAAATTC

Sequence 1276

CCCTTTCGAGCGGCCGCCGGGCAGGTAATAAAAGGTTGAGTAAAAACAGGAAAGCGT  
GCTATAAGTTCAAACTGTTGTATTACCTAAATTAAGATAAACCAACCTGAATTATAGT  
AGATTTCTCAATAGATGAGGAACTGAAAAATACTATGTAAATATCTTCCAAATGCTTT  
TTATACTTTTTTTATTTGTAATTTGGTCTATCTAAAATGTTTCGTTAGCTTAACCTAATGG  
GCGTTATTGGATTCATATGACTAACGTTTCCTCAGTATTGTAATGCTTGAAATATTTGAA  
AGAAAAATGTTGTTTTTTAGTTGAAACTGGTATATATAATTCAGTGCTTGGCAGGTTA  
GTATATTTTTATGCATTTT

Sequence 1277

GTACCAACACAATTGTTAATTTCTCACAGGCTNAAGGCATTCTGGGAAGCTATACAGGG  
GACAGGAAGCATTTTTTGGGAGCCTAAGGGGAGCCAGTTTGGGAAGAGACAGCATTCCTCT  
GGCTAGGACAGGTGGNGGNGGTGGCGGTTTNAAGGNTCTNCAAGGGACCCTNTGCAGAT  
GCCGGGGCCCTGTTTATTCTGAGCAC

Sequence 1278

CCCTTAGCGTGGTTCGCGGCCGAGGTAATAAACTAAACTGAGCAGTTTAAACATTCAT  
TTAAAGGGATATCTAATGTGTTTATTATTAACATAAATAATGTTTATGAAAAATGTAAC  
CTTAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACATTATTGCAT  
CTCAGTGAAAAATAAATGGCAACAAAATTCTTATATCTGCTTCTGCAGTTAATCTGTTCA  
TTTTGTTTTGGTTGAAGTATATGAAGGAAATCTGTCTCACACAGTTGTGTAGTGAAAAA  
AGGGGGACTATTGTAACAGGGCTGTGCACATAATTGTGGATGATTTCTTTGATACAACA  
ACAAAACCTTGGTGGAT

Sequence 1279

CCCTTCGAGCGGCCGCCGGGCAGGTACAATGTGATTTATCAATTAATTAATTTGAATT  
CCATGGAATGAAATATAAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAA  
TCATTAATAATTTGATAATTAATGGTCCTGAATGGTTAGCCATGTTCTCCGCATTTAAA  
TAAATAGTATAAACATAAATGAAATATTAAGTAATTTCAACGTGATAGAGACCGCTTA  
TTTTAGTTTCAGGTAGAGTTCCAACCTAATGGTAATTAAGATTCCAGATCCGAAAGATGT  
CATGTGAATATTGCTCTGAAAAACAAAATTAAGCTTTCTTAAAG

Sequence 1280

CCCTTAGCGTGGTTCGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTTTNGAAGGCA

Table 1

ATTTAATAAGATTTGAGCATAGATATTAACTTAGCATGGACAGAGAACTTATTTNTTG  
GGGGACTGGCATAAGTGAAAGAACAGAATCAGTNTGACCAGAGAGAGCATAAAACTTT  
Sequence 1281

CCCTTTTCGAGCGGCCGCCGGCAGGTACCTCTGACTTTCTAACAAATTACCATAAAGGA  
AGAATATTTTTTCGTCTACTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACAT  
GGCTAATAGAAAAAAAAGAGCAGTTTTAAATATGTTTTATGTAACCTATTTTCATTGTT  
TTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGGTCTCAATTTCACT  
ATGAATAAAAAAAAAAAAAAANGAAAAAAAAAAAAAAGTACCTTGCCGCCGACCACGCTAA  
GGG

Sequence 1282

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAG  
GTTTGTCAATATTGTTGATCTTTTTAAAGAACTAAAAATTTGTTTTGTTGATTCCTTTA  
TTTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTAGTATTTCTTCTCTGTTA  
GCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGTTACGCTGTTGAAATGAGA  
TCTTCTTATTTAATGTATGCATTTATAGCTCTAAATTTTCTCTTAGCACTGGTTTCACTG  
CATGCTCTAAGTTTTGATA

Sequence 1283

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTA  
ATTAAAAANCNGGANTTGGTNGGTTNCCCAAGCTNGNNTTGAANNCTGGGNTTAAACAA  
NNANNCTNGTTTGGCCNNCCAAANNCTNGGATTANNNGNNTGAACCANNCNNACCCANNT  
TTTAAANNCNNAAATNTTTTTNNGGNAANNNTNANANANNCNNCCCAAGGANTTAAANGGNN  
GGGAAAAACNTGGANNTTGGNTTTTTTTT

Sequence 1284

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACAAATAACAAGACAAATTTGACCTGTTCAA  
TAAATAGAAATGAAGTGGCTAAAAATGTTTAAATGGAAGTGGAAAACAGTCGCTTCTTT  
GTACTTGGTCTCTACCTCAGATAATTTCTTTGAGCTTTTGAAGTCTCTCTCTTTTC  
ACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTCAGATGCAGACAATCTTGACTGAAG  
CTGTTGACAATCTAGGTCTTTTGATGAAGGGTGCCTGAATATTCTTTTACTCACAGA  
TTCTTCATTATGTTTCTCT

Sequence 1285

CCCTTANNTTGGTCGCGGCCCGAGGTACTTTTTAATCTTATTATTAACCTAACCCCTGTG  
GTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAAGAATTGCTCATATCTTCCC  
AAATTGTGTAGTATAAAAAGAATGCTGTCTGTTGTTTTGTAGAAATATGGAAGTCCC  
TGCAGTAAGTAGGCAACATGCTACCCTTCTATTCAACACAGCACTAGAACAAGGCAAGTG  
GGACCTTTGTGACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGAC  
ACCTNCATCCACACCCACAGCTCANGTTAAGCTGCAAAAGTTACACATCTTCTCTAGGCC  
ATACACCCACGTAGCATCTTCTCTAATGGTACCTGCCCGGGCGGCCCGCTCGAAAGG

Sequence 1286

CCCTTTTCGAGCGGCCGCCGGCAGGTACACAGGATGTGATCAACAAAGTTCTATTTTAC  
AGGAGTATGATCCTGTGATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCA  
GCTGTTCTCTTGACAGATCGAGAGTGAGGGTATTTTGTGACATTACACAGCATCAGGA  
GCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGCCAAATTTATTAAGACA  
GGAACACAGTCAATCTGTAACCTATAAGTAGCTCTACGTTTACTTGAATTCACAATCCCT  
AACCCATCTGTCCCTGGCAGAAAGAAGGAAAGATGACATGCATGGACAGTGAACAGAAAG  
GGATGAAAGCCAGGATTCTTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGT  
CACAACTATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAGAGAATAAGCCTG  
AAGTCACCTTCCACTNAAAAAGCAGCCAACTCCCTCAAAGGAGTAACTTTAAACCTG  
GATCTAACCTGGAANGGGCTAAAAANTGGCTTGGTTCTGAGTTTTTTTT

Sequence 1287

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTG  
CTTTATTTCCAGTTTCTTGGACCAGAACAATAAAATACATAAGACATCGTTTCTATATG  
GTACATATAATAGATAAAGAATTGTTATGTAAATTATTAATGAGTATACAGACCT  
TTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence 1288

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTT  
AGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCC



Table 1

TTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGGTCAGATTC  
TCAGACTCTAAAGCAAAGAAGACTATGTTTCAGTGACAGCAAGACTGTTGAAGAAAAATAA  
ACTCGAATGGCCTTGAGGAGCTATTATCAATAAAAAACAGTATAACTTATAATTATCTGTT  
GTGTTACAATGAAGTATATCATCACTGC

Sequence 1289

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGT  
GTATTAGTCCATTTTTCACACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAA  
AGAGGTTTAATGGACTCATAGTTCATGTGGCTGGGGAGGCCCTCACAATCATGGTGGAAG  
GTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGCCAAGCAAAAGGGG  
AAACCCCTTATGAAATCATCAGATCTCGTTAGACTTATCCACTACCACAAGAACAGTGTG  
GGGGAAGCACCTCCATGATTCA

Sequence 1290

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTGGCATGGATCC  
TACATCCACAACCTACACATTATTTATTTATTTATTTTTCGAAATCCCAATCCCCAGAA  
ATGGTCCTCACCTCATTGACATATGCAGGAAGAGCCAAGGGGGAAACAGCAACTTGGAAA  
TGACTATGACAGACTAACACAAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGG  
AGAGCCCTCTGGCATTGGCAGCTCCCTACAGAGGTGTCTGCCCTCTGTTCTCTTGGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCA

Sequence 1291

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTNTGNGGNATGGATCC  
TACATCCACAACCTACACATTNTTTATTTATTTATTTTNTGCAAATCCCAATCCCCAAAN  
ATGGGCCTCACCTCATTGACATATNC

Sequence 1292

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTCTCTTTTTTTTTTTTTTTTTTTA  
ATTCTGAGATTTCCCAAGCTGTGGATTCTTCTACTCCTTAANAAAAAACTTTGGTTT  
TATTTAACATCTACACCTTTTNGTCAGTTGTGTTAGCGTGTTCACCCCATTTTATTA  
TACTCTTAAAAGATGTAATTGTTGTCATTTTTGAACAGTTAAACATNTTTGNGTATAAAA  
AGAACCCCAATGGTTTTAGTTATNGCTTTGTAAATTTTTATTTTTTANTTTTACCTAAAN  
AAACTTTCAACTAATCAAATAAGGGAAAGAACTGTCTTT

Sequence 1293

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTGTTTAAGGACATACCAGAAAAAAGTAT  
TGATTTTTATCCTATGCTAAACAGTGCTGTGATAACTTTTGTATCACTTGGAGAATGCTC  
CTGAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAAGGGAAAT  
TTCACACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAAATACAGTAAGTCTTTAGTC  
AGATAAAATTAATAATCTTAAATTCCATTCATGTTAAAGAAGAAAGACAATTAAGAAATC  
TGACACTAATCAGAAGAAATTAGGAAAACGAATAAGTAAAAGAATCTGAAAAGGAGAAAT  
AAAA

Sequence 1294

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTC  
TGGTTTTGTGTGCTNACATGTCTTCTTGGCATGAGAATGTTAATTTGGAANTAGTGGGN  
CNCTCAGAGCCNTCCTACAAAGGCAGTGGCAAAGCTTCNTTACCGTGACATTTGTTNAGT  
ANTAACTTTGCCTNGGCACGCGNCNTCCTGNAANTGTNTTGTGTTTGGGCCTATTTCT  
TGCTGAGNTNCCCTTTANNGGNTTGTNCCCTTCGNNTTTTTCATTTNANCTAATTTNGCC  
TCCCCATATNGAACAAANATTGGTAATTTCAACNATGGGNGNGNCCAACNTTGGCTTTTT  
CTTTTTTNGACTATGNCCCCCTAANTAACNACCCTTGGGATNCAANTTNGTNAANTT  
TTCTTTTCTTTTCTTNNNGGNGGGGNGCCTTNCCTTNNCAANNNGGAAAACCCCCAAA  
ATTTTNTTTTTNGCCNANCCNTCCAANCAATTTTTT

Sequence 1295

CCCTTCGAGCGGCCGCCCGGGCAGGTACNGCGGGCTCTCTCCATGGGTCTGTGTTCCAGA  
AAGCTATGACTCTTTAATGCATCTCTTAGTTTTTCTTATTTCTTTATTTCTTAGTATC  
ACAGTCCATGATATCCACTGTCTTGGGGCGCCCAATTCATTGTGCAAAAAGCATTTAA  
TCAAAATACCCCTATTTGTTATNTTTTTAAAAAGTAAAGTGGGGGATG

Sequence 1296

CCCTTCGAGCGGCCGCCCGGGCANGTACAATGCACATGCCGAANGACCTTANTNTTGA  
TGTGATGAAATGTTTTCTATGCCTGGAATAAATGCCTTNCCTTTGGGNTGTAATATCTTAA  
ATACGTATTGCTCCTCNATCTGTGAGTTATTTAATTTTTTCTCTGAAGNAGCTNTGATT



Table 1

TCTGGGCTTTCTAGTGTGATCATCTA

Sequence 1297

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGCATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTNGTCTACATGGCA

Sequence 1298

CCCTTCGGCCGCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCCTCTTNGCAGA  
GACTGCTCCATTCCATTAAAAGNGAAGGTTCAACTGGANACCTNCAAAGTTGGCTGGGC  
CT

Sequence 1299

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCG  
GGCCTGGTGGCTCAACGCCTGTAATCCCTGCACCTTGGGAGGCCGAGGCAGGTGGATCAC  
GAGATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCGTCTCTACTAAAAAT  
ACAGAAAAANAANAAAAAAGAAAAANGGTCCTTGTNTACTGCAGTTGTCNTNTAC  
ATGGCATTGGACAGGACATAATTGTAAACATAAAAAAGTGAATTGGTTACACTTACATN  
TGATAGTGAATTGGCAAACGTGACCAATTTTTT

Sequence 1300

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACAAAAAATCATTAACTCATATATTTCAA  
GAGTAGGAAATGGGAACGGTGTTAAACTCTTATAACATATGTCACTGNCTTAAGGGAC  
AGTGTTTTAAACGCATACCTCGGCCGGCGCGGTNGGCTTCATGCCTGTAATCC

Sequence 1301

CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TNTAAGATATAGATTTAAAAGCATTNGNAAATTGTATACTGCAGTGTCTGTCTACATGGC  
ATTGGACAGGACATAA

Sequence 1302

CCCTTGAGCGGCCGCCCGGGCAGGTAGGGCGCGCAGCAGCACTCGCCAAAGTCGTCGGA  
G

ATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACAGACAGACAGGCATGTCGTTG  
CAGCAGTCCGTGAGACCTGTGTGCCAGTCACTGAGCTGGGTCTGGTAGCAGCTGGTGGTG  
GCGCACTGGGGCTGACTGGTCACAGGGTAGGACATAGCTTTGCCTTTCACGTTGTCGTGC  
ATCTCAAACCTGCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGACGGCAGAAGTGGCCT  
GTGGCAACAGTGGCAGNAGTCTTGTCGAAGGGGAC

Sequence 1303

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAAAAAACAAAACAATGGAGTATGTCCTGTTG  
GTAGAAAAATTTGAGCAACAAAATAAATAAAGTAGTATAGGATTATGACCCCAAGTATAA  
AATAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATATAACGGA  
GAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAATTTTATAGACAGCTCCCT  
TTAAGAAACAGACCTACTGAGTGTGGTCTACAATTAATGCTCGCGTACCTGCCCGGGCG  
GCCGCTCGAAAGGGCCGAATTCAGCACACTGGCG

Sequence 1304

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGATTAAGCCAACTTCAGCAAAAAAGGAAG  
TGCTGCATTGNAGCAGTATTGAAAGTTATGTAGGTGGATTTTTAAAAAATATTACAGCC  
TAAATTTTCTTAGCAAAAGTCAAATGAGTAACAACACAGTTTGGAACATTTGNAGAG  
GAGAAAACAAATATCTGACAAGAGTACCTGCCCGGGCGGCCGCTCNAAGGGCGAAT

Sequence 1305

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAAAACCTGGACATTATAACATTAATTTT  
ATTAGCTCTCTGGGAGTGAGCTACATGATGTTGTGCACTGAAAATTACCCAAATGTTCTC  
GCCTTCTCTTTCCTGGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGAAG  
ACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAACTTCATTACAGAGGACC  
AAGCAGCGATATAATAATCCCAGGTCTCTTCAACAAAGATAAATCTTCTGACATGCCAG  
ACGGAAATCAAGCTGAGGCCCTCCTTATCAAATTTCCATGTGCGAACTGGGCTCAGCCAA  
TGAGTACATCAGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTCAC  
CAGCGACTGGAACCAGCAACTCTGTCAGGGATTGNAGGATTTATCCTTAATCTTTTATGT  
GGAGCTCTGAAATTTAATTCGAGGCTTTTCATGCCTATANAAAGGCTTCTGCCAANTGATG  
NGAATGATTTTAATTACCTCATTGGCATTTTTTCTTGGGAACAAGCAGCCCTGGCCTTT  
ACCCAGGGTANGTTTTCTTTCATTTTTNAAAGAAACACCTTTACCATTATTGNTTNCCTT

Table 1

AAGGGATTAAGTCTAAACAATTGGGCCTTTTTAAAATAANTTATTTAAAAACCCCCAAAA  
AAA

## Sequence 1306

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAGTGGAGGACACGAATTCTATACCTGTAGG  
ACAGTGCATGGAGAAAAACCTAATGCCGGCTGTCCCTCAGAAAGCCTGGGGCCAGTGCCT  
GGGCTGTACCTCATCCATGCTATCAGTCTACTTTCCCTCTTAGCCACAGAAAGCCCTGA  
AGAAAGTGGCATAAAAAATGACCTGGCTGGGCACAGTGGCTCATGCCATTATCCCGGCAC  
TTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTCAAGAGTTCAGACCAGTCTGGCCAA  
CATGATGAAACCCGGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGC  
CTGTAACCCCGAGCTACTCANGAAAAGTGAGGCANGANAATCTTCTTGAACCCAGGANACG  
GAAGTTTGCAANTGAGCTGAGATCGCATCATTGGACTTCCAACCTTCAAGCGAGAACCAG  
CGGTTNGAATTTCCCTTTTGTATGAACTGGTCTTTTAAATGTTCTTTAACCCATTCTTC  
TTTTCAAATTGGTTTCTATTGGGTTTTTTTTTCTTTTTTGGANGTTGGGACTTTTTT  
AATCTACCTTGG

## Sequence 1307

CCCTTAGCGTGGTCGCGGCCGAGGTACCC ITGTTACAAATATACCATCATCATCAGGTCT  
GAATGGGTTTCTCTACCCCGACACCACCTGATATGCTAAATCCAAGTTCTGGATCCTT  
TTCAACCCCTCACTCGAATCTCTTGTGTTTCCAGTTCATGGCCTTGTCTAGGAGAACAATG  
GGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAAGTAATCAATTAGTTGTTT  
TCTAGAGGGATGCCTTGCCACAGATGCCTGAGGGGGGTGATGTATTTGACTATAATTTGC  
CTGAGGCCTGAGAGGCTGGCCCATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGA  
AGTATCTTAAATGACCAATAATAATGTCTTATTTCAAATATTTGGATTCTTCTTGGAG  
CATTACAAAAGCACTAGAGTTTTACATTCTAATTAAGTCAAACAATACCATGCCACTTA  
CTATTTTTCTATAATTTTAAACCTTAAAGAAATAAGCTATTAATGGCTTAATTCTAAAG  
TTCCTGAGTGCTTGGTGGTACACTCACTTTTTTAAGCTT

## Sequence 1308

TTTTTCGCCCTTNTTNTGGNCGCGGCCGAGGTACTTTGTGNTTTTTTTTTTTTTTTTTT  
GGNCACAGGANTCCTGACTGGGAAAACCTGAGCTACAAAAGCAAGATTTTACTGAAATT  
AATTATTTACAGACAGACTGGANATCACAGGTCACTGAAAAGTCATTTCACTGAACAGA  
GCTAAGGATCTAGGATAAATTGTAATAACAGCAAAGGGAAATTTTTTAAAGAAGAGCAA  
AACTCAAAGTCAAACATCACATACTCTTATGCCTTTGGAAAAAGAAATAAAAAATAGA  
AATTTGCCNCCATCAAATTAATACTATTTCTGAATTCAGGGAAAAGACAGGNGNAAT  
TAAAGGGAATTAATTAATAATATCAAATNTCTACCCTATTATNAACATACCAAGAAAAATG  
AAACAAAAAATTAATTAATAAAACAAATNTTTGGGCTCCACCCGAAAAAGAAATNCCTCC  
AGGNGGCACACACACACNNCACCCACACCCACGCCACAACAAAAAAC

## Sequence 1309

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNTCTTCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANAACCNNAANCCNTTTTTT  
TTTTNACCNAAGGGGTTNNNCTNANTAANNCNACCCCNNTTNAANNACNNNNTTNAAAA  
NNNTTNTTANAAAAANNATTNNACCCCNNTNTNAAAAAAAAAA

## Sequence 1310

CCCTTTCCAGCGGCCNCCCNNGGCAGGNACAAACCCTNGTAGGNTAATCCANCTCTAATTG  
ANNGGGGAGCANNACCTTCTGCTTCTTTAATCCCAGATCNGAGGCCAAGGG

## Sequence 1311

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAACTAAAATTATGGGAGAAGAACTATGA  
GTGAAACGATGAGAAAAACCTAATGCATGATGTAGAAGTGAAGTGGTGTAAATAGCAGAGC  
ACTGGAGGGAAGGGCCACAAACTCTTCAACCCCAAGGTCTAGAATCATTCTAGAATCATC  
CTACAAGCCTAGTTTTCATGAGATTCAGCCCTATTTTATTTCTTGCTCTTGAATTATAT  
GAAATTACGAATTTCTGTGTGTGTCAGCTGTAATAGAATCCCTGGAATTTTATTTACTT  
TTAATTTTGTATTTATTTATACTTATGTGCCATCTTCTCATGAAAAAGAGGCAGTATG  
TTAAAGTTTGAGTTCAGATTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAA  
GTGTGATATATGAGAATTTCCAGAGCAGGGTATTCGTAACCTTGTAAGTATTTAGTCCAAG  
TTCCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAGATGTGGTGGCTCA  
CGCTGAAATCCTTTTGGGAGG

## Sequence 1312

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC

Table 1

AGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACTCTGTCTAAA  
AAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAGGATCAAGACAAGAAAGACAG  
ACAATCACTTTGGAATTCTGAGACTACCTCCAAGAATCATCCACGGAAGGATGTCAGCCA  
TTTAACCAGGGCTACGGATCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTC  
TCCTGAAAAATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAAA  
AGTAGAAGACACTGTAAATTTGAATCTGGATCCTATATAGCTTCTTCTCTGGGATCTAC  
TGAGGAGTGAAATCTAAATGAAGATTTAGCTTAGAAAGCATGAAGATAGTATGTTCCAAT  
TTTAAATAAAAAATTATATTGTCTGAAAGACAATAAATTTTAGTACCTCGGCCGCGACCA  
CGCTAAGGG

Sequence 1313

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGNTNNTTTT  
TTT  
ANAAAAAATNNAAATTTGACNGGNNAATACCAAANGGAAAGTGNNTGANCCNCAAAAA  
AAAANAAGGTTTTACNTTTTCNAAATTTANNTNTTTANAAAAAANAAGTTTTAAAN  
TTNNGANTTTTAAACCNCCTTTTNAACTGNAAAAAATTTTTNAAANANCTTTACCCGAAN  
TTAATATAANCNAAAAATTTNNTTTTTTAAANTAATAATTANCNACCCNAATTTAAN

Sequence 1314

CGCCCGGNCAGGTACCTNCTTAGAAACCTAGACTCCANAGAACACTGTTTGACAACCACT  
GCAGTAGAACATAATATATCAAGATTNTAGGAGTGGGTTTCTTTTTTCATTTTTACATGT  
TNTAGAATAACATGCATAATCAAAGCTAATAACTGTGTTTTCTTTACTCTTTATTTG  
CCTCTAAAGACATCCACNCATAGNGGTGAACTGATTTTAATGCGTTTTAAATAAAGGC  
ATTGAAAAATATTAATAATTGNAGTTACTAAAAGTATTTCTCTTTCGATTCTCTNATCT  
GTGTTTCCAGACCGGTTGGGAGGGGTGACAGATCAGAAGGCTCTGGTCAAGGAATGAAA  
ATGAGGATGAGGAATAATAAACTCTTTTTGGCANGCACTTAAATGTTCTGAAATTTGTAT  
AAGACATTTATTATATTTTTTTCTTTACAGAGCTTTANTGCAATTTAAGGTTATGGTT  
TTTGGGAGTTTTCCCTTTTTTTTTGGGATAACCTAACATTGGGTTTTGGAATGATTGGG  
TNCCATGAAATTTGGGAGATTGGTATTAACAANAACCTAGCAAAAATGGTTTTTAAAA  
CTTTTTTGCCCGTGTATTGAAGGAAGTGCTANNAAAATGCNAAAAGTGCCAATATTTTC  
CCTA

Sequence 1315

CCCTTTGCGGCCCGCCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCCTGGGCAACA  
CAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTAACTCCTCGCATTTGATAGGGCTAT  
GTAGCTTTTAAGTAAGCAATGTTAGAATGAGTTGTAGAGTTTTATTTTGTGAATATAGT  
GAGTGACAGATGGCAATTACATGAGGATATTTGAACGAAGGTACCTCGGCCGCGACCAGC  
CTAAGGG

Sequence 1316

CCCTTAGCGTGGTCGCGGCCCGGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAG  
TAAAGTAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGT  
AAGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTC  
AGGCAGGTGCCCCGTGCGGAGGCCTCTGGAGTTACTCATCTTGACGCTCGGGCTACTCA  
CCATCAGGGAGCCCCGCGTACCTGCCCCGGCGGCCGAAGGG

Sequence 1317

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTNNCANGTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTACNCTGAGTCAAAAAATNTTTTAATAGTTNCAAAAT  
TTTTTTTTTTTTTTTTTTTACAAAATCANTTTAAANANNCNGGATTTNNCCNTAATT  
ATCAAAATNTTTNTTCTTGGGGTNTTGGCTAAGGGGGGCTNAAATAAAAAAAGGCCTT  
NGANTNTTGGNTCAAAAATNTNNTAAAAANCCCCCTNTTGANNNTTGACATGCTTAC  
CCCTTATGAAAAANCCCCCTCNNTTAAAAAAA

Sequence 1318

CCCTTAGCGGCCCGCCCGGGCNGGTACTACTTTTTTTTTTTTTTTTTTTGGATCAATAAG  
TNTATTTATGTTGNATCACACAATAGTTACACAAGCATTAAAAACACATGCNCACNTGT  
TTATTATACCATACATACAAACACACATACAACTTAATATTTACAAGCACATACAAGCAC  
ATACAAACATATAAACAACAACAACACTAATTNAACATACATACAATACTTACAGCTTA  
CGTTT

Sequence 1319

CCCTTAGCGTGGTCGCGGCCGANGTACATGAAAACATCAGTGTGACAGTTAATATTAAT

Table 1

GTCAACTTGATTGGATTGAAGGCTGTAAAGTCTTGTTCTGGGTGTGTCAGTGAGGGCGT  
TGCTAGAGAAGACTAACATTTGANTCAGTGGACTGGGAGAGGAAGACCCACCCTCAATAT  
GGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAAAACAGGAGGAAAAAGGTG  
GGATAGGTGACTTGCTGAGTCTTCAGCTTTCATCTTCTCCCCTGCTGGATGCCTCCTG  
CCCTTGACATCAGACGCCAGGTTCTTTGGCCTTTGGACTCTCAGACTTACACCANCGGT  
TGCCGAGGGCTCTTGGGCCTTTGGCCACAGACTGAAGGCTCTACAGTGTGGCTTCCCTA  
CTTTTGAGGCCTTTGGACTCGGACTGGGCCACTACTAGCTTCTTNCCTCCTCANCTTGCA  
GGTGGCCTATAATGGGCCTTACCTTGTGAACATGTGANCCAATTCTNCTTAACAAACGC  
CCCTTCATACATACATATATCCTATTAGTTCTGGCCCTCTGGAGAACCCTAATACACTCG  
ATAAAATTTCAATTAATAATTTTAAATA

Sequence 1320

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT

Sequence 1321

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCTT  
TT  
TTTAAAAAAANT

AAA

Sequence 1322

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCTTCTTCCTATTAAGTGCCTAAACTATAG  
GCAAACTTTGGTGTTCCTACTAAACACAAGAGCCTCACACAATTAGGAAAAAAATCA  
AAAGAAACAAGGAACTGAGAATGGAAGTTAGTGTAATCTCTGCATTTGGGGAGTTGTC  
ATTAACCTCCAGAGCCCAGCATAGTTTCCATGGAGCCCTGAAGGGAGGGGACCTCCTGCCA  
CAAAGAGTTTCGTTCCAGACGAGTCGTAGCAGTGGGTGTAACAGCATTGGGGAAGAAGT  
CAATGTCTGAAAAGTAATTCCTCCAGTTTCATCATGATTCTACGGGAAGAGAAAGAGAC  
TACAATTAGCACCTCTAGCCATGGGGCAGGAAAAGGGGGAGGAAGGGACAGGAATGCTTT  
CTGGTCTCCTTAAGGGAACAGGGTTCTACAGGTACCTGCCCGGGCGGNCGCTCGAAAGGG  
CGA

Sequence 1323

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTAAAAAANAAAAAANNNAANTNAANGGGNGNNAAAAAANTT  
TTNAAAAAANTTTNCCAATTNNGGTTTTTTAAGGGAAAAAANAAAAAANNNAA  
ATTNCCCNNAANTTTTNACCCCCCCCCNTTNAAAAAANAAAAAANTTTTTTNAAAAA

Sequence 1324

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTAGTTATGGCTGTTTTTGCCCTCTAAC  
ACTTTTATTTTAAAAAGAAAATTAATAAGGTTATTGGGATCAAAGATATAGGCTTTTGG  
TTACTTTGAATGATTTTTGTAATTCAGAATATGCACTTGTTATTTTCAGTTCTTATTTTA  
TAATTATTGGTAGAGTTCATCTAATTACCCTATAAATCCCTGGAGAAAGGTGGCCCCCAT  
ATACTTTATTTCTTGGTTATATGTATAAAATCAGTAGGCAATGTAAAAATGTTTTGTG  
TGAATTTATGTGAGTTATAATTCTAATTCTATGTCAATATTCACCTCAGATTACCACATG  
AAAGCTCAGTCACCAACTATGCCTCATACTGAAATACCCACTGATTAAATCAAGTTGACA  
ACCAGCTCCTATCGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 1325

AAGCAGGCATGGCATATAANCAAGCTTTTTTTAAGGCTGAGTGACTTATGTGGCTGATAG  
AGGAAGGATAGGAGGAAAGGAAATATAGTGAAAAGGAACAGAGAGGAATAATAAGCTGG  
CAAGTCACAGACANCATAATTAGACTATCAAAGAANATTTGGAAGAAAGGCATGGACAG  
GAATAAAGACCTNCTTCTAAAGCAAGGTAGGGAGAGCAACTNNATGTAGATTGAANAGAA  
AAAGGAAAGAAAAATG

Sequence 1326

CCCTTTCGAGCGGCCGCGCCGGGCAGGTACGCGGGATATTTATTTACAAAACACTTCATTA  
TTTATAAAGAAATTTACTAACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGA  
GGCCCTTTACATAGAAAACAGCATTCTTTTTGCCAAATATGACCAAATTAATTTATTTA

Table 1

TAATTTTGTATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGAATTTACAATGAAA  
GATACCTATGCAATAACATTTAGGATAATCTTTGACATTTTGGAAAAATAAGAAATTGAGG  
AAAAAGTGTATCTTTCAAGTAGATGCAAAGCATTATAATGACTGACACTTGTATCTAAC  
TCCAGTCTTACAGATAACTAAGGCAAAAAGCTAAATAAACAATATGTAACCTCTAACATT  
TGGTAAAAGGAAGTATACTGGTCTGTTAGCAGAGACAAACTTTTTTTAGAATTGAAGTCT  
GAAACAAACAAAAG

Sequence 1327

GCCGANGTACANGCCGNGGAAGAGACTCAAGTAGGAGCGCCTGCCCGAGCTGANACTAGA  
TGTGAACCTTTACCATGAAAATGTTAAAAGATATAAAGGAAGGAGTTAAACAATATGGA  
TCCAACTCCCCTTATATAANAACATTATTACATTCCATTGCTCATGGAAATAGACTTACT  
CCTTATGACTGGGAAATTTTGGCCAAATCTCCCTTTTCATCCTCTCAGTATCTACAGTTT  
AAAACCTGGTGGATTGATGGAGTACCTGCCCG

Sequence 1328

ATCTCCACCGCGGNGGCGGCCGCCCGGGCAGGTACCGGAAATCTGCAGATCGCCAAGTAA  
TTCCTATAATGATGCCCTCCTCACGTTTGTCTGGAACTGGTTGTGAACCTCCGAAGAGG  
CTTCCGGAAGGAAGACATAAATNCCCAACGAGGAGGGACATNGGANCTCCACGACNTNNC  
TCCTATTACTCGGCACCCCCTGCAAGCTCTCTTCATCTGGGCCATTCTTCAGAATAAGAA  
GGAACCTCTCAAAGTCATTTTGGGAGCAGACCAGGGGCTGCACTTCTGGCAAGCCCCTGG  
GAAGCCAGCAAGCTTCTGAAAGACTCTGGCCAAAAGTTGAAGAACCAGACATCAATGCTTG  
CTGGGGGGAGGTCCCGAGGAAGCCTGGCCTAATGAGTACCCTCGGGCCGGCTCTAAGAAA  
CTANGTGGGAATCCCCCGGGGCTGGCAGGAAATTTTCGATNATTCAAAGCTTTATCGNAT  
ACCCCGNCCGACCTTCGGAGGGGGGGGGGCCCGGGTACCCAAGNCTTTTTGTTTCCCCT  
TTAGTTGAAGGGGGNTAAATTGGCGCCGNCTTTGGG

Sequence 1329

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAAGGTTTGGGATTCAGCATCACTTCCAGA  
GATGTAACAATAGGTGGCTCANCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGGCG  
GCCATTCAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTANAT  
TTAGTGGGCAAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAANCACCAAGATGGAAGGA  
ACTGTGAGCCTTCTGGTCTTTCCGCCAGGAAGACGCCCTCCACCCAAGGGAAGTGAAGCA  
GAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTC  
CCACTTAATGATTACAGGATCTGCAGGCCCTGGTGTCAAGTGTCAAAGTAAACCCGGTCAA  
AAAGAAGAACCACGCAGATTTGGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGGCA  
GCATTCTAAAGATGGAAGGCTTCG

Sequence 1330

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGTGTTTTGATAGTTGACTAACACTGACCTG  
TAATGGTCTACACCCTCTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTC  
CTAAGTGTGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCTGAA  
CACTCGAAGTGGACTTCCTTTCTGAATTGACCAGTCAAAGAGAAAGGAAAAAGAAAAAA  
ATATGACCCGGTTGAATTTAGAGTATCAAAGCATGGAGTATAGAATAATTTTGTTTTAA  
AAGAGGAGCTATTAAGTTGAATGGAAGGAAAAAGTTCTGGAAATGCGTTCCATGTAAGG  
ATAGTAATCCCG

Sequence 1331

TATCTGCAGAATTCGCCCTTAGCGTGNGCGCGGCCCGAGGTACTGTTTGCATTAATAAAT  
TAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTATGCCCGCCTCTTCACGGGCAGGTC  
AATCACTGGTTAAAAGTAAGAGACAGCTGAACCCCCCGGTACCACTGTAATCATTATT  
CCCAATGTTATGATTACATTGACAGATAACTCCAGTTTTGCTAACCTGAACTGATGTTAT  
GGCCATAATATGTTGTTGATTCATGGCAAANGGTGATGTGTGAGTTATGATCCTGTTTTT  
CTCAAAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGATGAATGANGATAGC  
AAGAGATGGCATATAATCACCAGACTGATCATATTGGATTCTTTG

Sequence 1332

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTTTTGCAAGCCCTCTATTTAAATTC  
CCCAGAAATTAATAAGGAGGCTTTGGAGGGAGGAATGCCCTANACAAATTGTGGAGTGG  
GTTTGTTTTGTTTATGGAGATGGTCTTTAAAGTCTAAATTGTCCCCGTTTTATTTTGGC  
CAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTCAAGCCTACAGCTT  
TTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTTCCATTTTTAGCAAAGAGAGAAA  
GGGGAAAAATATACANACTCGTACCTCGNCGNNAACACGCTAAGGGGGCAATNCCAGCA

Table 1

CA

Sequence 1333

CCCTTTTCGAGCGGCCGCCGCGGCGAGGTACTTAATTCATTCTACTTTGTGTTAACTATCTT  
TTTATGTGTAGGTCTCATCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATC  
CATGCATGGAACCTCCCATAGACATCAACCAATCACCAATAGACAAGCCTTAGAACATGTA  
TTACAGGAAAAATAGAGTAACACATACAATAACAGAGGAAGAACANTTGACATTAA  
ATAGAANAANAATAACACTCTTTGGANTCTATAAANAATGNAAACAGAAAGAAAGAT  
NGAAGGATAATNCGTNAACCTAGAATATTCAATTTGCCTGCTTCAACATTCAATAATTAA

Sequence 1334

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAA  
AAAAAGAATGAATATCTAATGTATAAACTCCAACCTTAGATTTCAAAATCTTGCAAT  
CATTACATTTGTGCTTCTTTCTACACAGCTGTCATTACATTCTAGGCTTGATTTC  
CTATGTAAATGGGAATTTAATCTTTATAAATGAGGCATTTATGTAAAAA  
AAGTACCTGCCGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCG

Sequence 1335

CCCTTCGAGCGGCCGCCGCGGCGAGGTACAATAAACAGCCAAAGAAAATAACAGTTAG  
CACTTAAATAAGAATCTACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATT  
ATATATTTTTTAAATGACTGAGCTACAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1336

CCCTTAGCGGCCGCCGCGGCGAGGTACATCTATCTGACCCAGAGTTACCTTTTCTATCA  
TGCCCCCGTAGGATATTGCCTGGGGACACCTGACAAACAGAAAGTCTAAGGTTTTCTATCA  
GGATTGGGAGTTACCCCAACACCAGCAGGATGCAGGAAAAAGTAACTGACCGGATGGTTG  
CCTCAATCTGTTGATTCTTCAGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGA  
GCCAAAGATTACCGTATTGAACCTTACCAAGGCATCTGGTGACTAGAAAACTCCTGGAAG  
GTGGTCATAGCAGAAATTGTTGGGAAAGTTCTCAGCATAATAAAGAGAAATTTTATTT  
CCTTCATTGATCCACTCCTACAGGGAAAAATAAATGGCANATGAACCCATGTATGTCANA  
CTCTGNAATAAACATCAGTGAGATCACAGTGTGAGNGAAATTCAGCCTGAATTA

Sequence 1337

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCAAACCTT  
ATAAATAAAAAGTGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACT  
GAGCATTTTCCATTTTCTCCTANATTCTTAGGAAGCCTTTGTATCTGCGATATAAGTTA  
CTTTCTCCTTCTTTGTGATGTTGTTAACTTTGCATTTCTTTTAAACCTGCAGTAA  
TTTTAAATCTTTTCATTCACTGCTTCTGGTTTTCAAATCACATACAGAAAGAATCTCCCG  
AGTCANAGGGTGTGACCACAGACTGTTCTGGTGCTTCTATGGCTTCATCTTTCCAGTT  
GAATCTCTGACGTAGTTGGAATTTATTCTGGNCTATAAGGANCCGACTTTATTTTAAGAA  
CAAAATTTTTTTNAACAAATGGTAACTTAACTCCTAAAGGCAGATTNT

Sequence 1338

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAAT  
ATGAATTTCTCACCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAA  
TCTAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAAACATATCN  
GGCTAAAGTTAAAGAGGTATTATTCTGTTTTCCATAAATTGAACATTGGAATAAAGTG  
CAACAGAGTTTCTAAATCATTGNTCTGCTCTTTAACAAAAAANATTGTAAANGGT  
ATAAAAGGNTTATAANAATCTTACC

Sequence 1339

CCCTTCGAGCGGCCGCCGCGGCGAGGTACTAAAAATTTCCACTATCAGAAGATCCTGATT  
AAAATAAAGAAATACATAAACTCAAACAGTAAGTCAATGTGATTATTTGTTTCATTTCA  
GAAGATCTATGGGTCCCACTGCCCGCCACACGTAGTCTCCTGGGTTCTCAACGAAGTGTG  
ACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCA

Sequence 1340

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTTGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTTA  
CTATTTCCCTTGTGATTTAAATTTTGTATTTGTGCTTCTCCCGCGTACCTGCCCGG  
GCGGCCGCTCGAAAGGG

Sequence 1341

Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGACTATTTTTTAGCAACAAATTACTTTT  
GACACACAGCACAAATTGATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATG  
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCTCTT  
AGTAAAACTATTGTGACACTTCCTTCTTTCTCCAAATATTCCGGCCTGGAAAGACCTAAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAACTAGTATAGATT

## Sequence 1342

GGTCCGTGGTGCGGGATCGAGATTGCGGGCTATGGCCGCCGAAGGTTTTTCGTCACTACT  
GGGATATCCCGATGGCACCATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA  
GCGTCGCTGGCCTGACCGNCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCC  
TTGAAGGAGTGGCTAAGGTTGGACAATACAGTTCACTGCAGCTGCTGTCNGNGCCCGTG  
TTTGGCCTCACCACCTGCATCAGCGCCCATGTCCCGCGAGAAGGCCGACGCCCCCTGAAC  
TACTTCTNNGTGGCTGCTCCNGANGCCTGACTCTTGGAACACGCACGCACAACTACCN  
GGATTGGCGCCCGACGNCCTGCGTTGTACTTTGGCATATCGGGNCTTCTGGTCAAGAATG  
GNCNCGGNTTGGAGGGGCTGGNNAGGGTGTGTTGNAAAAACCAATGTTTNAGCCCTTGTG  
CCTTGCCGGGGACCTTTCAGCCCTGCAATAATGCGTCCCAGAAATAAATNNTGTGGTCT  
TGGTGTNNGAAAAA

## Sequence 1343

CGCCCCGCGTCCGAATGCAGTGAAAGTGACACTGCCTGACCTTCAAGACTAGATCATCAA  
AGGTGCTACAGCTTCTGCTTTGGCTTACCCTCTCTGTCGTGGGACACTCACCCTTGGACC  
CAATCTCCACACTGTGAGAACTTCTATGCTACCTGGAGAGGCCTTCTATAGATATTTTCA  
TCAACAGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCCAACATGTGGGTGAGTGAAC  
CCTCAAATGATTGCAGCTCCCAGCCTTTGAGTCTTCAGTTGCGGTCCCAGTCATTGAAAC  
AGAGTCAAGCTGCCCCCGCTGTGATTATCTGAATTTCTGACCCACTGGGAGCATAATAA  
ATGATTGTTTTATGTTNAA

## Sequence 1344

GGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGGTGGGCATGATTCCAGTCAA  
TGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGAGGTCATTGTTT  
GTCATTGAGTCTTCTCTCANAATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCC  
CATGGCAGGGTCCCTTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTC  
CACCTCTNACCCACTCTCTCCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGG  
TTTTGGGGTTCAGGGTGCCTGNTGTTTCCCTTTNCTGTNCCCAGGTCATTCCAAACCCTT  
CTGTTATTTATTANGGCTGGNGGGAAGGGTTTTTTTCTTTTCTTTTCTTTGGAACCTGCC  
CCTGTTCTTTACACTTGCCCCCATTCCTTAAANCTCATACAAGAATTTNCATCNAATNGGG  
GGGCAATGGGNTTGGAAAGCAAAAAGGGGCTTCCNTTAACCCCGGGCAAGGCAAAAANGCAA  
TTNGGTA AAAANGGANGCACCTNCCCCCTTTTCTTNGNCCCCTTNCCTTAANTTTTNAATA  
AANAACCNNGGGTTTTNTANTTTTTTAAAAAAAACCTGTTTTNTTANCANAAAAA  
AAAA

## Sequence 1345

TAGCANTTCAGCCCTGACCTGGGTCCGCAGCCTCCAGGGCAGGGGCTGGAGTGGGTNTCT  
CAAATTAGTGCTAATGGTGGTCANAACCTGACTACNCAGACTCCGGCCCCATC

## Sequence 1346

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGG  
AGTCAAAGATAGTTCCAAAATTTTGAACAGAACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAATTTGGCAGGA  
CAAAATCATAGCTAGAGATAAAAAATTTAGAGTTTACCAGTGTAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAG  
CACCAGGGGACTTCAACATTGACAGGCTCAACAGAGGAGAATTCCCAAGAGGATGAGGTT  
CCACCTTTAGGACCCGCCAAAGAAGACTTCCCAGACAAAGTACCTGCCCGGGCGGCCGCT  
AAAGGGCG

## Sequence 1347

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTTGGCAATTTGCATTTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTTA  
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGCTACCTGCCCGG



Table 1

GCGGCCGCTCGAAAGGG

Sequenc 1348

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTACTCTGTAATATTGCTTCTATTAAG  
GGTGTGGTTTTTTTTTTGTTGTTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTAT  
GTTGGTTACGCTTAGTGGTCTCAACCCTGGAACAACCCGTANACCCACCTGGGGAGCTC  
TTAAATTATCAAGTGCCTACCCACCTTCCAAGATTCTGATTTAAATCCTGTAGTGTTT  
TTAAGGCACCCAGGTGATTGTAATGTACCTGCCCGGGCGGCCGCTAAAGGG

Sequence 1349

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTT  
TT  
NAAAAAANGGNTAAANNAANTTTTTNTTNCNCCCNAAANGGGAANGGGGNTNAANTNN  
NAAANNTTTANNTTTTGGNAAAAAAAAAAAAATNNNANTTTNAAAAANCCNNGGGGNGN  
TTTTTTTTTAAAAAANNNNTAAANANNTTTTTTNGGGGGGGTTAAANTTTTTTTTT  
NNGGNCACAAAAAANNNNCCCNNTTTNNCCNNTTTNAAAAAANGGAAGGGGGGNNNN  
NTTTTANNTNNCNNTTTNAAAAAANNTNNTNANGGNNNTNNNNATTTTTTAAANNNNAAN  
NNNNNNNGGAAANNTTTTAAAAAAGGGAAGGTTTTTTTTTTTTTNNNGNGGC  
CAACCCNNGGTGGNGGAAAGNACNCCNCCNAGTTTTNCCCCTGGNGGAAAAAGNTTT  
TTTAAAAAA

Sequence 1350

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAA  
ATGTAAATATTCTATATGAATTTAAATATAATTTCTGTAAATGTGTGTAGGTCTCACTGTA  
ACAATATTTGTTACTATAATAAACTATAATATTGATGTCAGGAATCAGGAAAAA  
AAAAAAAAAAAAAAAAAANGTACCTGCCCGGGCGGCCAAGGG

Sequence 1351

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAGTATTATGTATCCATAAAAAATTAATAAT  
CTTTAAAAATGCATATGGGGGTGAGTAGGTAAAGAGAAAGAGAACCAAGAGAGCTGCAGC  
GGGAGACACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAGGC  
CCGGCATTGCTGGAACCTCTAATATTTAAAGATGATGGAACTTGAAATTTATATTT  
AATCTTCTCATTTTTAAGTGTGGCAATGATTGAAGACTTTGAAGCCTCTCTGCTGGTC  
AAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAGCTGGCCAGTTTGAAAAGTGAATC  
CTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTTGCTTTGATTCCTGCCTCCTGCTC  
AAAAAATCTTCAATGGCTCCCCCTGTCTGCAAGGNAAAAGTCC

Sequence 1352

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACA  
GNTACTACTCGNGGAAAGTTATTCAAATTTCAAATTTATTTACAGNGTTTGAAAAGCACAC  
AACAGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAAATAAAA  
ATCTAAGGTAAGTCAAACATACAACTCTACCTNTTGCTTTCTCCATTANAATATACACA  
TTGGAAATCTAAGTTCAAACAGTTCCTNTNTACTGAANATAGTGAAATTTAGTGCAAGC  
CCCCTAATTACCAATTTTTTGG

Sequence 1353

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTGGTTTGATCTGGAAAGGCAGGACAACCC  
AAAGCGGGCTGGGGACAGTTCCAAGTTATAGGAGGTTTTCCAATTGGCAGTTCGTTGAAA  
GAGTTTATCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTAAAATAAGGGG  
TTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGCAGGCTTCAGAGAG  
AATAGATTGTAATGTTTCTTATCAGACTTAAAAAGGTCCAGACTCCTAGTTAATTTTC  
TAGTGGATCAGGAAAAAGACCTGGACAGGGAAGAGG

Sequence 1354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTNGTTTTTTTTT  
TT  
TTTTTNTNTNTNTTTTTTTNANTTNAAAAAAAAAAAAAAAAANNNANTTTTTTTANNN  
NANANAAANNNNNATNAAANNANTTTTTTNANAAAAAATCTTTANNAAGGGGGGAAA  
AAAAAANNTNNAAAAAAANTTTTTT

Sequence 1355

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTAT  
AGTTTATGAATGCTTGTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTAAAGAG  
GATTTGGAAGTTGTATGGATTTTTGTATCTTCACTTTACTGCATAGGAAACAATCTAC



Table 1

CTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTGTCAGGTT  
TAATTTAGTTAAACAAAATGTAAACATGACATTCCTGCAGATATTGTTGTATACCAGT  
ATGGTTTCTTCTCTTTCTTTAAATGTTTTTGCCATCAAGTA

Sequence 1356

CCCTTTGAGCGGCCGCCGGGCAGGCACTTTTTTTTTTTTTTTTTTTTTTTGNGTTTT  
TTNA  
AAAAAAAAAAAAATTTTTNNAAAAAAATTTTTNTTNNNTNAAANTTTAANTTTTTNAA  
AAAANCCANGGGNTTTTTTNAANNTTTTTNCCNGTTANGTTNTTNAANNNANTTG  
GGGGGGGGNCTTTTTNTAAAAAANGGGNNNNCCGNCCCGNAAAAAAAAN

Sequence 1357

CCCTTTGAGCGGCCGCCGGGCAGGTACAACACTTTAAAAAGTGAATTTTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTTAAATAAAAAACATTCCAAAGGCCTGGAAATTCAG  
GAACATAATTCAAAATAATTTATGGATCAAAAAATAAATCATATAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGAAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCGGCCGCGACACGCTAAGGG

Sequence 1358

CCCTTAGCGTGGTCGCGGCCGAGGTAACATGGAATAAGTGTTAAGAAAAGGATTGC  
TTATTGGTAGCATATAGATTTAGAGTCAGGAATGATGGTGATTTCAAACAACCACAGAAC  
GTCCACATGGGTGGCTGGCCAGGATAGTGACACCTTGCTTTCTAATGGCTTAGTGTACC  
TGCCCGGGCGGCCGCTCGAAGGG

Sequence 1359

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAA  
TCCCTTTATTAATAATGTAAAAAGCCAAAAGCAAGATAGACGCAGATATGTGCCAAAATA  
TGTATTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGTGAGAGGAG  
CCTTTGACATCTCTTTCTAACTATTTGATATCATTTGTATACTAACGATGTACCTGCCC  
GGGCGGCCGCTCGAAGGG

Sequence 1360

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGGCCTTCTTGTTATTATTTCAAAGA  
AAGAGACTTGACGTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAG  
GTGCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTTAATATCAT  
TTGTTCAATTCACCAAGTTCAGAGGATTGGGGGTGATGGGCACAACAGAAATGATGGAATA  
TAGGCCAAATGTTACAAATAGATAAAATTACCTGACCAGTGAAAGTGTTCTCAGTCG  
CCATGGANCCTCAGATTTGAACTCCCCAAAAAAAAAAAAAAAAAAGNN

Sequence 1361

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGCTTCAGTGTGGTTTAGTAACTTAGCCT  
AGGAGGCCAAGATGTCTCCCTAAACTTAGTCTCTGTCCTATTTACTTTGTTTATAAGAC  
TGTGACCTAACTCCCATGGCCAATTCATCGACTAGGTTATCTTTACTCCAATGGACCC  
AGGCCTTTTCCAGTCAATCCATGTCCAACCTTCATCTCCAGCGTGATCACTCAACTCT  
TCAACATGCCTGCTTGCTGCAGGNTTAAACCACACCCACCATCCTGTGCTTNCCTTA  
ATCGCCATTGATGCCCCGCANGGTAAAAATAAACTA

Sequence 1362

CGANGTACATGAAATGGCTGTTTTTCCCAACATTANTCAGCTCTGGATTTTGCATGTGT  
GGGGCTTTTTTTTTTTTTGATAGTTATTTGTTTTTATTTAAAAATTTATTTNGCCAA  
CCCAGTANAGAACAGCTGAGCATNTTCTCATGTATTTATTGGCCATTTGCATTTCTGCTG  
CTTATTGGCCATGTATTTATNGGCCATTTGCCGCTGCTGTGAAATGTCTTAAATNTTT  
GCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTAAAAGA

Sequence 1363

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTC  
ATAAGATATAGATTNAAAAAGCATTGTAAATTGTATACTAGCAAAAGTCGTCTANATGGC  
ATTGNACAGGACATAATGTAAACAT

Sequence 1364

CCCTTAGCGTGGTCNCGGCCGANGTACTTAACTTTTTAGCCTACTACTGCACACCTAG  
GCTATGTGGTATAGCTACCTTGATATGTGGNCTGTCACTGACTAAAACCTTNGTTACACA  
NGGTATGACCCTACTATTCANCTTGAGAAGATGGAAATGCTGNCATTTGCAACAATATG  
GATGAACCTGGAGGACATTAAATTAANTGAAATANGCCAGGCACAGAACGACAAGTAACA  
CATAATC

Table 1

## Sequence 1365

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTNNTTNACTTNATTN  
TACTTTAAGTTCCAGGATACATGTGCAGAGTATGCAGGTTTGTACAGGTATACATGTGC  
CATGGTGGTTTGTGCACCCATCAACCCATCACCTAGGTTTAAAGCCCCACATGCATTAG  
GTATTTGTTCTAATGCTCTCCCTCCCTTAACAGCAGTTTTTCTATAGGNCAAAACAAAT  
TTGGGAACCAGAATNGNCTACTGTCTTATATAAATGATCATTACGATTTGGGANGAGGG  
TTTTTT

## Sequence 1366

CCCTTTGAGCGCGCCGCCCGGGCAGGTACCACAACGTTTCTACTCTATTGTGTAAGCTTT  
AAATACAAAAATACCACAACCACTCCCGGACTCCTCCATTATTTAGTAATACTGGCTGC  
CCTAGTTTTTCAGGATACATCATGCAAATAAGTTCTTTATTTTTCAAATTATTTATTC  
CTAAAGTATCTTTAATTTTTCTTTTTGGTTATACAGCTTATAGAATAAACAAAGTCACAAG  
AATCTTCATTTGTTTCTAAAGTATATAATTTACAAAAGTTGTTTACTCAATGTGAATT  
AAAATTTGCAAGGTCTAAAAAAATAAAAAATTTTAAAAAGTAAAAAAA

## Sequence 1367

CCCTTTGAGCGCGCCGCCCGGGCAGGTACAATATATTATGAAGCATGACCACTTTATTTT  
GAAACTTAGCAATTGTATTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTT  
AGTTAGTTTTATAATGATTTTTAAAAACATATCTATTTGGAATAAGATACAGCAACAAT  
CATTGCTATTGACTTGTTCACCCCTTAGTTACACTGTATGATCAACATATAACAAGATA  
CAGTGGGAATGGCCATACAGTATATTACTGTTGTGTGATGATTGGCTTTGGAAGCAGTT  
TGATTTTGAAATGCTTTGATATTCTAATTGACATGGAACAA

## Sequence 1368

CCCTTAGCGCGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATACTTTTATCAC  
AATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTCAGTCTCAAGAGGTTACTGCA  
TTTCAGTTCTAACTAGACATTTGTACTTGTGATCACACTACGGGAATCTCTGTGGTATAT  
ACCTGGGGCCATTCTAGGCTCTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGG  
GGGGAGGATGGGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATTATAGAATATTTGGA  
AATCTATTTTAGNGTTNGTTCGNNTTTAACGGTCATTCT

## Sequence 1369

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTCTCTGCCTCACGTTTCAAGCTTAATGC  
ATCATCTTAATTCATCTTTGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCT  
TACATCTCCAGAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCATTGTTATTA  
GCAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCACTTGCATATGCATTAACA  
AGCTCTGATTAGTCCCACTTAAAAACCATTGTTCCCCCGTCATGCAGAACTCCATTGCC  
AAGCCACACAACACCCAGCCAGTAGGGTAGCAGCTNCCTGGAGCAAGGGA

## Sequence 1370

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATTTTTTTTTTTT  
TT  
TTTTNNCNCNCCGNNNAAAAAAGGNCNAAAAAANGNTTTTTTTTGATAATNAAA  
AANNAAAAAGGGNTTTNAANGGANTTGGNNTTTTTTTTTTTNGNCCNNGGNAACTTTNA  
AATTTTTTTAAANCCNGNAAAAAANTTT

## Sequence 1371

CCCTTTGAGCGCGCCGCCCGGGCAGGTACTGTCGTTTCCTTCCTACCTCGTCCTCACCCC  
ACCCCGAGTGAAACTTTTCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGT  
TTGAACGACACAGGTTTGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTGGAC  
ACCACCAACAAAAATCTTAGAAAAAGGTCATTTAAGGCCTATAAAAAGTGCCACCTTTC  
CCAGAATTAATTCAGAGAGAAAAATCTTATCTGCCTCCTGGCAGCTACAGCGCANAAAGT  
ACCTCGGCCGCGACCAACGCTAANGGGCGAATTNCCAGCACACTGGCGGCC

## Sequence 1372

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTTT  
TT  
GCGGGNANANAAGGTNCANNATTNTTNAANNNTNANTTTTTANCAAAAAAACAAANT  
TTANCCCAACANNTTATTTTAAACAGCAANANGTAAAAAANCCCAANCNACNTTCCANNT  
AANAAAATTTTTTT

## Sequence 1373

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTATTCTCAATGGATAATTCTATAAAATATT

Table 1

TAAAGAAGAATCAACACCAGTTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATA  
CCTTCCCCCTTAATTTATGAGGCCAATATTACCCTGATGCCAAATCCAGACAAAGATATT  
GTCCCCCAAAATAAACTAACGATCATAGATAAATACCCTCTTATAAATTTAGATGCAAA  
ATCTTAAGCAAAATATATTAGCAAAATGGAATTCAACAATGGAATAAACCTATTATACCA  
CCAAGTGGGAATTTATTTCTAGCTATTGCAAGACTAGCTTGGACCTTTTGAAAATTGATT

## Sequence 1374

ATATCTGCAGAATTCGCCCTTTGCGGCCCGCCCGGGCAGGTACTGGGAATACAGGCATGA  
GCCACCGCACCCGGCCAGAAATTATAAATCTAACCAGGATTCCAACCTACAATACAATGA  
AATATCATTCTCTCTTATAGGTTTTTGGTTTTAACCAATCTATTTTAAAAGGGGCAATT  
CAAGGATTATGGTTTATATGNGGGGATTTCTGTTTGAATATGATCAAATGTTCACTGGAG  
AACAAAGCAATAATTTGCAAAAGGCATATNTATGCCTTACATTAATGTGGATCCTCTTCT  
AAAAGTAGAATAAGCATCAGTTCAGTCACCCAACGGTGGGAAG

## Sequence 1375

CCCTTTGAGCGGCCGCGCCGGGCAGGTACGCGGGGGATATGATTGGCCGGCGAATCGTGG  
TTCTCTTTTCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTA  
TCCGCACTAGAAAGTTCATGACCAACCGACTACTTTCA

## Sequence 1376

CCCTTTGAGCGGCCGCGCCGGGCAGGTACTTTCTTTTTTCTTTTTCTTTTTTTTTTTT  
TTTTTTTTGAGACAGGGTNTCACTCTGTCACCCAGGCTGGAGACAGAGCAAGATCCCGT  
CAATTAACAACAATAAATAAACAATAATGCCCAACAAGGAAGAGAACGGGAAGTCAT  
AGGCAATCTCATTATGACATAGATTAACAACACCTGAAGTATATACATACCCACACCC  
CCGACATGAATACATATGAGATGTGTAATGTGAATACTTACATGTATGTATATGAAAGC  
AAACCAATCAACAATGTAAATAAATAAACACATNATGACTGACTGGCATTGTGCCC  
AAGAATGCAAAGCTACTTGAGAAATCTATTAATTCATCAATTAATACTTTAAAGAG

## Sequence 1377

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATATAAAAAACATTCCAGTGTCAACAGCACTTT  
AAATTTTACAGTAATATATGAAAGAACAGACTTTACACTTCTTTTGCACAGAATTATCT  
TTGCTATGTTTTAAATACTTAAGAAATAGAAACAAATTTAAGAGAGTTTTACCTTTAA  
AATTTATTACATAAGCTATACACACAAAATGAAATCCTAGTTATAAAGATGCATCTAGA  
AGAATAATTTATAATAAACCAACAAAATGAGAAATGTGTATCTCCAGGAATATAAATATA  
TTTAAATGTTCTCAGTGAAGTGGCATTGCTTTATGCATTACATAAGATAGTATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGG

## Sequence 1378

CCCTTAGCGTGGTTCGCGGCCGAGGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCCTT  
TGTTGGAGTCAAAAAGAACCACTTGTGGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCC  
AGGTCAGCCACTGTTTGTTTACAAAATCAGGTAACCTAAGTGCATACACTTTTCTCTTTC  
CATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGCCAGAAGCTACTGCGATGC  
CCCGGGAGTTAGCCCCCTGTAATAGCTGTAACTTCCAATTTCTAGCCATACGCTCAGC  
TCATCCATGCCTCANAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAGATGAAAG  
AGCAGTTGGACTTTTTTAAATTCAGCAAAGTGGTCCCTCTCTTAGGGACAGTCAAAAC  
CAAGTCACTTAGGTAGTACCTGCCCGGGCGGCCGCTAAGGGCGAAT

## Sequence 1379

CCCTTTGAGCGGCCGCGCCGGGCAGGTACGCGGGGTGAATGGAATGCCTTGCAATATGAA  
TGTTAATATAATGTGTAAAGGGAGATTAAAAAGTTTGAATGATTATCCTAAAAA  
AAAAAAAAANGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1380

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAGTAATTTTGGAAACCTCTTTGATGTCTGG  
CTTATAGAAGACACCTGGGTTCTTATATCTGCTTCTGAATCGATCTATTGTAATGNGTT  
ATTTTGGCTGAAGTATGTTGAAGAAATACTACCTTACAAAGATATGTATTTCA

## Sequence 1381

CCCTTTGAGCGGCCGCGCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCCTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCTGCATTGTTTGTATATAACATTGA  
TATTTGTTGTANCTTGTATATGAACATAATTTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT  
TGAAGCTTTTGGATTATGAGTATGCTGACTTTTACGATTGGCTGGTGCATGTTTAGAC

Table 1

TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACANG  
AGCTGTGACCACATGCCAATATATGTGTACAAAAGTCTACATATGTTACATTCTTGGA  
GTCTCCTTAAATGTTTCACAAAATGTCAACAAAGCTTGNTTTGNTATTGGATATTCCGA  
GATTGGGCACATTTAAGACAGTAAACGGGGAAAGGTGGNGAAAATCTATAAGAAAGATGC  
TGTATCTTGAGAATTGAAAAATGANGAATCNTGACATGGTTTGAAAAATCAT

Sequence 1382

CCCTTTCGAGCGGCCCGNCCGGGCAGGTACCAAAATTCATTCAAGAAGAAATAGATACCA  
GCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAAAAAAAAAAATTAGTCC  
GGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTGAGGAGGCTGAAGTGGGAGGATCAC  
CTTGAGCCCAGGGANGGTCANGGATGCAGTGAGCCATGGGTCTCACCCTGCACTCTAGC  
CTGGGGTGACAGAATGAGACCCCGTTCTCAAAAAAAAAAGAAGAAGTNGATAATCTTGAAT  
AGCCCTATATCTATAGAACTTAANAGTGCTGGGGAGATATAGGTATTATTATCCCTCAA  
TTTTACNAGATGGTGAAAATTGAGGGTTCANAAGAAGTAAAAGTCTATTGCTCAAGGTCA  
TGGTGGCTAAGAATATTGGCANANNCATGAATTCAAAATCCAGGGTTTTTTTGATTCTTT  
ATTCCAAGGGTCCCTTNTAGCAATACCCCTTGGTTGNCCNTTAAAGAATATGCANTTCC  
NTTTTTTACTAANAAAAATTGGTCCCTTGGCCCAAATCNTAAATGTTCAACNTTCAACC  
CCANTTTTTTTTTTAAAGCACCTATGNNTGGGNGTTTTATCANGCATTAAATNTGNATT  
GGCTTTTGGAAANACCGNGTNTCNTNTNGGGGAAAGGGAAAAAAAANTTTTTTTTCCA  
ACTTGGCCCTTCGNCCAANTTGGGAAAAA

Sequence 1383

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCT  
GAGATTCTTGTGTATTGAGAGAAATTTTAGTAGGAAACAAGGACAAATTTGCATATGAAA  
TGAAATAGTTATTACATGACAAAATATGTAGATCTGATTTCTAGAACTGAATTAGTCC  
AAAACAAGTAAGAGTGGGAAAAGCAGTAAAAAGTCTTCTTGAATATTGCTGTTGTCATC  
CAAAGTATTCTTATTCTTTTAGGTGAAAAATTTCCATTACTCTTTTNGATATTCTCAA  
AAGAAAGTTTAGGATTTTACAGGNGTTCTGAAATACTGAATCTTAATTCANGTATTTCAA  
TAGAGTATTATTGATTGCTTCTTATCAGTAGATTTTTAAANTATTTATTTCTAGGCTA  
TAGATCTTCTAAAAATATAATCCAAAGTANNTAAAAAGCCCGATTNTAANCCAAAGTA  
TAAAAGATCTCTTTTTTGGGAGCCTGCTNTNTTAAACAGTTTTTCCCAANNTTGGGTTTT  
GTTTTTGGAAACANGAAAATATNTGGTNCNTAAAAAGCCAANCTTTTANTTCTATTANNA  
GGGTTTTCTCGCCTCANAANAAACCNNTNAAAAATTTANGTTTAAATTGGGNANGGGAAC  
CCCGNGNAAAAAAAAAAAAAAAAA

Sequence 1384

CCCTTGAGCGGCCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCCCTGCTG  
GTTAGTATTAGTATTTATTTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTGAA  
GTGATCTGGCTTGTCATTTTTTCAGTAATAAAAAAGTTACTGAATTTAATTGTTGAATAT  
GATGCATATCTCATTCAATACGATTTATCAGAAACCAAAGATTTAAATTGCCTAGATTG  
TGGTCTTTCTCTTCTTAAGTTCCCAGCGACTGCTTCAAATACTATTTTCTAAATTTCA  
CCAAAGGAGCAACCGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGATGTCAGAAAT  
CTAAATCTAAAAGAAAACAGACACAGAGCAAGACAATAACATCACAAGCTAAAAGCCAG  
AGAAATTTAAATTAACCAACATCCTTGTGGAGTAAGACAGTAAATATCAGCCTTGACGC  
AAGACAGCTCTGAGCAGCTGTGGGCAAAGAGGTAAACCAGTGGGGGTGCAAGGAGACTGT  
CTGCAGCTTGGGGCAGAAATGGTGGGAANCAACTTGNAAAAAGCTTCATGTTTTACAAAC  
CAAAAAGGTCAGGTAGCACCAACNTATTGNATGGTCAATCAATAAAAGGTTACTTTCAA  
AAAAAAAAAAAAAAAAA

Sequence 1385

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAATTTTTTTTTTTTTTTTTTTTTNT  
TTNNAAAAAANTNTNNNNNTTTTGGGGGNNNGNAAAAAANTTAAAAAANTTTNNGGG  
GNNTTTTAAAAANTNAAAAAATTTTTTTTTTTNTNGGNCCCCCCCCCAANCATNNTAA  
ATTTNGGNGATNNAANANAAAAANTNNAAAAAATTTTTTTTTTTTNTGNNTNN  
TNAAAAAANGTTTTTTTTTNCNNAGGAGATTTAAAAAAGACTNTTTTTTTTTTN  
NCAGTTTTTATTTAAAAA

Sequence 1386

CCCTTGAGCGGCCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGTAACAAATGA  
GTGCAGNTGTGTTCCAATAAACCTTTATTTACAAAAACCGGCAATGAGATGGATTGGCC

Table 1

TATGGGCCATCATTTGCAAACCTCTGATTTANAACAACCCTGCCATGAGTTCTTCCACAG  
GCTTGAACACAGGAAGCAAAATACAAAAAGTACCTCGGCCGNGACCACGCTAAGGG

Sequence 1387

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCT  
TTTATTTNANTTTTTTT  
TTTTTTTTTTTTTTNGTAANTNNTTTTTTTTTTNATNTNTNGGGNCNNNNNAAAANTTTT  
TTNGNGAAAAAAGAGNGNTTNNCNCNNNTTTTTTTTTTNAANANNNCCTTTTTTN  
TATNTAAAAAANNNTATNNGNGNTTANGTNAAAAAATAAAAAANTTTCCNCCCCANAAA  
AAAAANCNCCAAAAAAATTTTTTTTTTTTTAAAAAAGGGCNCNNAAAAAANTTTNN  
CNCCTTTATTTNAAAAAANTTTGGNTTTTTTTAAAAAANAAAAAANTTTNNTTT  
TNAAAAAANTTNCNCCCCCNANANAATAATTTNANCTTTTTTTTTTTNGGGNAA  
AAAAATNTTANAAAAAATTTTNTTAGAAAAAGANAANATATGANAATTCTCTCAA  
AAAAAANGANNTTTTTAAANANTTTNAAANAAAAATAATACTNNCTCTCCTTGGGGGGG  
GGGNGGGGAANAAATTNTTTTTAAAAACATANATNTTCTATAAAAAAACCC

Sequence 1388

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTGGTAGTAAAA  
TATCCCAATCTCTTAAATGTATAGGTGAAAAATACTAGTTTCGAAATGATTCTTAAAA  
GCAACAATAAAAAATACTCTTNTTCACCTGAAAGAAAAAACCCAAAGGCAGTGTTCATAC  
AAAGTCATGAAGAGAATTTAAATTAAGGTTTTGTTCCACTTTGTCTCAACTTTAACTTT  
TAACAGTTNTTTATAGGCTTTTGAACCTACTTTGGAGAAGGAAAAAAGTAGGAATAAC  
TGTTCTTCAAAAATTTTACAAAAACAGTTTGACTCAACTTCAGTTGTTAAATTTGGGGTA  
TTTTCTATGTTGAAACAGTATTTGAAATTTCTAATTATACTGGCAGATAAAATGATAA  
AAAAGACATTNTACTCTTNANAGGATTATCAAATGCTGGTGATTCCCGCGTACCTGCCCG  
GGCGGG

Sequence 1389

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTTTTTTGGACGGAGCATCGCTCT  
TTCTCCCAGGCTGGAGTGCAATGGTGCTATCTTGGCTCACTGCAACCTCCACCTCCCGGG  
TTCAAGCTATTCTCATGTCTCAGCCTTCCAAGTAGCTGGGACTACAGGTGCCTGCCACCA  
TGCTCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCACCATGTTGGTCAGGTTGG  
CCTCGAACTCCTGATCTCANGTGATCCACCTGCCTCGGCTTNTCAAAGTGCTGGGAATT  
CAGGCANTGANCCACCATGCCTNGGCCGCATGTGGTCAATTTCTTGGGGGGTAAACCG  
GATCCGAATTTTTGCAGGTTGCTTTTTGTGACCAAATTTNTTTTTNGGGGGAAA

Sequence 1390

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGTCCGGGCAGGTACTCTCAAAGCTAGG  
GCTGCTGACTGAGCANCTACAGAGCTGACTCTCTTTCTACAGACAAAATAAGGAGAA  
GACTGNACAAGAGACCCTTCTGNTGANTACCTTGCCAAGNTGTCTGCAATGCTTNGCC  
GANTTTTCTACTGAGTT

Sequence 1391

CCCTTAGCGTGGNCGCGGCCGAGGTACTTTGTTTTNGGNTGGTNGGTTTTTAAATAACA  
GCTTTACAGAGAGATATNATTCATAATTNATAAGGNTTTAACTTTTTTTCTTTTTTAAAG  
ACAAAGNTTACCTTCTGTACATTGAAAAATCTCCTATATTCTNGGAAGATTCTGAGCAA  
TACATTCACGACCCAGGTTTGGGATTNNGCATACTATTGGANAACTGTTTCTGAANAT  
AAACACTTCAAGAATTTGAGAAAAATAAACTAAACCCGAAACATTGAACACAAAGGC  
NCAAAAACATTTGCCTTAACATTGCANNAAAAAATTACTTTAAATCCCGGATNTGGCTTN  
GNANAAAAAANAAGNTTTTTNTTTGTTTTGNNTTNGCAAAAACTTTTTGAAGGAATGGC  
ATTGAANCTTTANNANGGGGGGAACCNCCNTTCAAAGGGAAAAATTTTTTTNCCTTTNA  
GAAGGGAATTGGANCTNAAAAAATAATNTNGGGTTANAATAAAAAAANTTTTTTTT  
TTTACAAGTTNGCNAAAAAATTAANAATAAACTTAANCCTTTCTACCCAANAACCCCA  
TTTTTTNGAAAANTNGGANAAGGTTTTAAAAAATTCNAAAAA

Sequence 1392

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAATGTAATTGTTACATATAATTGTTGTA  
TACCATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTGGTTTGTTT  
GTTTGTTTTTAAATAAAGTGTATCACTTAAAAAAGTCCCTCGGCCG  
GACCACGCTAAGGG

Sequence 1393

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTGCCCTACATTTCTGCCTAAAGGCAATTC

Table 1

CAGACTACACANACNGAGANGAAATGCAAATAGAGCCCANCTGTCTCTGAAAAGAGACAA  
GAGAAATCTAATTTCT

## Sequence 1394

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATGGGG  
TCTGTGTTGCCAGGCTGGAGTGCAGTGAATTCATAGGGGCAAGCATTATGCACAACA  
GCCTCAAACCTCCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTAGCTGGGACTA  
TAGGAGTGCACCACCACGCCAAGCTGGCATTCTCTGTTTTCTTATTTCTGATTCTACTT  
TTAGCTTTCTTAATATGCTGATATGTTTTGTTTGGTATATCATATATTAATAAAAAACAGTT  
CATCTCATCCCCATCATTNTATCTTTAAGAAGCCCCCAAACCATTTTACACATTTAGGN  
AAACAATGGGCAGGCAATAAGGNTAGNGAACATTCCATAGCCCTCTTTTGATAAACCA  
TCCTTACCTGNTTTTACTNGTNAAAAAAGGAATTNTACAATTGGGTTTCTGGCNCCTAA  
AAATCAAACCTTAACCTTTTTTTTGGGAGGGAGTTGGNGGATNCCAATAAANGCCNA  
TNNTTTTTTGAATCNTTGAATGGAATTGACCTGGATTGAATTCCTTTAAAGTCTT  
TTACTTTTANGGTTTTNAANACTTTATTTTAAAAATTTTCTTAAAGAACTTAAAAA  
CNNCTTGGGGTTCTTAAANNNTAAGAAAACNNAAAAATTTNTCCAAAATTTAAAAA

## Sequence 1395

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCGGAACTGGGGTTGCGGCGTCTAAGT  
GTTTCCGGTGGATTCCCAGGGACTGTGCGAGGTGTGGACTCTGCCTGCCTACCTGGTCTG  
GNAAGATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCG  
GCCCCAAGTTGCTCAACACGGTGAAGCAGAANCTTCTTCACCGAGGTGGAGGGGACCTGC  
ACAGGGAAGTATGGCTTTTGTAAATTGCTGNCACCACCATTGACAATATTGGTGCTGGGTG  
TGATCCANCCNGGCCCGAGGCTTTGTCTTATCCAGTTAAGTACTAGGTGACTTGATGA  
AACTACTTTGTTGAGGCTGNTGGAGCAAAGNGCAAACCTAATTNNTGCAATNAAAA  
NTAAAAAGTGACACATTANTAATCCTTNAAAGGAAATTCATTTTCTTTTTTCTGNN  
CTTCNTTTTTGAANCATGGTTATGGGAAACCTTAAGCCTGTNTTAAANNNGAGTATTCTT  
TTANTTAAANNNTGNAAAAANGCCTTTTTNTACTCCTTTTAAAAAATAGNNATTTNTTA  
AATNCAATNGAAATTGNNTNGGGGAAAAA

## Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTTATTTTTTGAGAGGTA  
TGATTCTTTCTAGAGATTTTTTCTCATGGCTACTATTAGATCAGGAATGGGTGATTGGGA  
GATTATTAGATCTAGGTAACTTCTACCACTTACCCTAATACATAAACTTTTTCTAA  
ATAAATGATGGAAGGAATNATACTTGGGTACCTGGCATTATTTTCAGTAAGAAAAAAGC  
TTTACTAACCTACATTTATGGAANTTGTAGGGTAAGTATTTTATAGGTCATAAAAA  
AACACCATAATATTAACGAATCTCATTTTCTTTTAAATGTGAATTAAATCCTAACAGG  
CATTCTTTTATAAAAATGACCCATAGGCTAAAAAT

## Sequence 1397

CCCTTTGAGCGGCCCGCCCGGGCAGGNACATGTGTGCGCTTANATCATNCAACCTTTCA  
GTCACTACTATGTGTAAGGCAGTCTGCTAGGTTCCAAGGAATGTGGGGCTAAGTGAATAA  
GATGCAGCTCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTTACNTAACTTCCACAG  
TGCATTGTGAAACATGCCATATGGAAGGGATAAACACTGATGACAAAGTNATTGCCAACT  
TTTACTAATTTTGTCAAATTTTAAAAAGAGGTACCTTTGGCCNCGACCACCTTAAGGGCGA  
ATTCCAGCACACTGGCCGGC

## Sequence 1398

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAAGTTGTAACCCCTGATTCTGTGAATGTGAC  
CTTTCTGGAAGTACGGTCACTGCAGATGTAATTAAGTTGANGATCTCAAGATGAGATCAT  
CCTGGATGCAGGATGGGACCTAACGATAATGGCTGGTGTCTTTATAAGAGAAAGGAGAA  
GANATTTNAGACNCANACATGCANATAGGAAAGCCNCNTGGAGACGGAAGCCAAANCCTA  
GAGTGNTTAACCTACAA

## Sequence 1399

CCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGGCCGAGGTACT  
TACATAGATCTAATTTATACAGTGAGTCAAGACGTAGAATAAATGCTCCACATAGCCTN  
TCTTTTGCTTTTGCTTCTCTCCTCTGAAGTGTGAGTNGAGTNCTCATTAGGTTTGTAAC  
ATGGCTATTTCTAAGTTGTAAAGTNCTGCATTTATAANTGCCANTGTTGNAAGGTGGTG  
TTTCTANACCTTCCCTGATGCGATTTTA

## Sequence 1400

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCTTTCTTTTT





Table 1

CCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAACTTGGGTGACCCGTAAT  
TTCTCTTCTCCTGCTGTCTTTTGTCTTTACGCCCCACCCCAACTCCCCTTAAATTTTAC  
AGGCTTATGACAGTTTGTATGTGCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTG  
GACTTTAGCCCACCAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAAATTGGCACCCA  
TTGCCCCGTGCCTTCAGGCAGTCTCCTGGGGCAGAAAGTATGCCACCATCCGAATATCAGG  
CACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGCTTTGGGGTGGGTGGG  
GGNTNACTACTATTTTTTTTGGNCANGATCTTTTCCCCTTTTTTTTTTTTTT

Sequence 1408

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTTTATAGGAACCCTCAAATTAATAAAAAAATG  
TCTTTTAATGGATGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAAAGACTTCTGTC  
TATACAATATTTTTTTTAAATTTGGAGATAAAAGCTTTAAGAACTTTTTGAGTTAAT  
ATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTGTGTAAATGTATTATTAC  
ATAAAATGTGTTTTGAATCAATGCAGTTTGGGGATGAATATAATTAATATGTTTAAAT  
AACTTAGAATTCACTAATAAAAAATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAGT  
TTAAATGTATAACTGAGTGGTAGATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1409

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGNNTNTNNTGTTNCTATTACNNTTAATCCT  
TNCTTTNGTTGTGAGCTTGTNAATGCATGTNGAGGATNTGNAGCACTGTCCACTGAGTCT  
CTGTG

Sequence 1410

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAG  
GCAGGAGAATTGCTTGAACCCAGGAGGCAGAGTTGCAGTGAGCCGGGATCATGCCACTG  
CACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAAAAAAAAAAAAAAAAAAAAA  
AGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGTAGACCACTCCTTCTGAGG  
GAGAATCCACCCACCTTCCTCCTAGCTTCTGGTGGTTGCTGGCAATCTTTGGCGTTCCC  
TAGCTTGCAGATGCAGCACTCCAATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATG  
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1411

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTTTT  
TTTTTTTTTTTTTTTTTNAAGGGAGNAAGTTTTTAATCCACTTAAAAATACAANAG  
CNCAATCCACATTTATTTATTGATTTTCGTTAGTTTAAATCCTTGAGGGGNACTTTTT  
TTTTTTTTTTTTT

Sequence 1412

AACTTNCCCACTTNTTTNAANGGGNGGNCCGGNAANNTTNGGGGGGGCCCNCCCTTNCC  
TTNANGNATNANGGCCCCATTGGGNCCCTTNCCCGNANGGCCCGGGGGNCCCCCGG  
GCCCCCANGNTTNGGGTTNGGGNAATTNGGGGGGNAATTNAATTTNNCCTTTGGGGCCC  
AAGGGNAAAAATTTTTNCCGGGNCCCCCCTTTTTTTTTNCCCGGAAGGGNCCCGGG  
GGGCCNCCCGGGCCCCCCCCCGGGGGGGGCCCAAGGGGGGTTTTAANCCCGGNCCCC  
GG

GNGGGGGGNNGGGTTTGGGGGGAAAAAAGGGAAGGTTTTTGGGCCNTTTTTCTTTG  
GGAAAAAATTTCCCCAAGGNCCCCCATTTTTNCCCTTTTTTCCGGGGGGGGGGGTTGG  
GCCCAAGGGGGGAATTTCTTTAATTTCCGGGCCCTTNGGGGGGAAGGGCCCAATTTN  
TTTGGGGCCTTTTTTTNNTTTTCCCCCTTTNAAAAAGGGGGGGAAAAAAAAAAAAAATTT  
AAANCTTTCCNTTTTTTTNGGGGGTTTNNNNNAAAAAANGGNNCCCCCCCNAAGGGGAAN  
GGGGAAAAAAGGGAAGGAAAAAANTTTTTTNAAAAAANTTTNCCAAAAAGGNCCCCCCC  
CCNCAAAAAAAAAAAAAANNTNNNTCCCCCNCNANNANAAAAANNTATGTNTCNANN  
NTTNGGGGGCCCNTTTTTTTTTTTTTTTTTNGGGGNGNAAAAAAGGGGGNNCCCCCCC

Sequence 1413

CCCTTTCGAGCTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTT  
TT  
TTTTTTTTTTTTTTGGGGGGNNTCCCNAAAAANTTTNNTNNGNNAANTTTNCCAAANTTT  
NAAAAAATNCNGNNTTNNNAACTNANNAAAAAANNNAAAAAATTTTTNAAGNNNCNTNAAA  
TNNNNCNNAAAAAAATTTNTTTNTNNTTTACNNCNAAAAAANNNANAAAAANTTTTTTTT  
AAAAA

Sequence 1414

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGTCAATTATCTTTATCATAAACATTTTAC



Table 1

ATGCAGCTATTTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAA  
TGTGTTTGTGCTAATAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA  
AAGGG

### Sequence 1415

CCCTTCGAGCGGCCGCCCGGGCAGGCACAACCTTTTCAGGATGCAGTTCTTTTCATGACCAT  
AGTGTTTTTTTTTCTATTACTCTTTCACTTACTCACAGGATTCAACCCATCTGACTCATC  
TGTTCTCTCTCCCAGACTCTTCTTGATCTTTATTTTTTTAATTTACCAGAGAAGAGCAAG  
CACGTGAGCAGTGAATAACTTGCAAGGATGCAGACTTTTTTATTTTGCATGCTACTTTT  
ATAAAAACAAACCGTAACATAAAATAACTCTTTAATGAAAACTCAGAAAAATATTAATCT  
ATTCTTAAAAGGGTTTAGAAAAGAAAAGACAGCTGTTAGGTTATTTGATTTTCAAGT  
TTATCAAAATAAAATCAAATAGAAATTGGCAAATCTTTAATGGCATATGAATACTTCTATC  
ACTTAGTAATTAATTTGAACAGAGATGTTATTAGGGTCCTTAGTATCACTCCATCCTTTC  
CCTCCACTCTTTATACAAAAAGAACATACAGAAATTTAACAAAGATATGACTACTCA  
TATGTTTTTATAAAAAAGTATCACCTAGCANGTGTCTTNCATTTAAT

### Sequence 1416

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTGTTTTCTGAGTTCTGGGCACAGCTTTAG  
CAAATTAATCAAACCTAAGAAGGGGGTCATGGGAACACTGACTTGAAGCTGGTTGGCCAG  
AAGTTCTGGATGAGGCCTGGCCTTACAAC TAGTGTCTGAAGTGGGGGCAGTCTTGTGAGA  
CTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAGGTAGATAGCATGAGAATT  
GAATTGGATTAGAAGGTGCTCAGCTGGTGGTATCTTCTGCAGAACTGATTGCTTCTTGTT  
GGTGGGGAGAAATCCCCACACATTTGGTCACAGAAGTCTACTGTGTTGATGATTGTGGTG  
TAAGAGCAGAGGAAAAGCAATTTGATTTTTCTCCACAAGGGGGAAGAAATGTTTCATGAT  
TCAACTAATGATTTACCTTTTCATTGTAAGGTATCATGCTCAAGTATTAATGTAGGAAGG  
CTTTTTTGATGCANAGTGTGTGTGTGTGTGTGTGTATATGTGTGTGTGTTGGAGAGG  
GCTAACATTA AAAAAGGGAAATGTATAAGGAAGAAGAAATGGNGNTCTAAACTTAA

### Sequence 1417

CCCTTAGCGTGGTGC GCGGCCGAGGTACAGATCACACCTTTAAGATGGTCCTCCAAACAAA  
AGATTCTACAACCTTTAGTTATTTAGAATTAGCTTTGAGACTTTGGGCAGGTCACAATTTT  
TCTCTATCTCCTATCCTGTAACCTCAGAACCAGACACACTACTAACATCATAACATCCAA  
ACTTGGTTTTTGTTTTTTTTAAACAGATAAAAAATGTGACTGGGCACAGTGGCTCATGCC  
TGTAATATCAGCATTTTGGGAGGCCAAGGTGGGAAGATCGCTTGAGGCCAGGAGTTTGAG  
AGGGGCCTGGGCAACATAATATGATCTCATCTCTACAAAAAAAAAAAAAGGAAAAAAG  
CAACATTAGTGGGTGTGGTATTGAGCACTGAGTCCAGCTACTCGGAGACCGGAGGCA  
GGAGGATTGCTTGAGCCAGGAGTTCAAGACCAGCTAGGCGGGAAGTTTCTAGTGGGCTG  
CAAAACAGCATCTAGCCATTGTCCTCTTCAATGTACCTGCCCGGGCGGCCGCTCGAAAGG

## Sequence 1418

CCCTTAGCGTGGTGC GCGGCCGAGGTA CTAATTTACACCAACAGGTGAAGTTTCCTAGAAG  
AGTCGTCAACTGGTAACATGGGATTAGCTGCTAGAGGGACTGAGGACTCTAAAGAGAACA  
TAAGCAGCAAATTGCAAGAGCATCTGTA ACTGCTGGGCTAAGGCAGGGGACCCAGGAGGG  
AGCAAATCCAGGAATGGGGTGGCTCCCAGGGCCGAGATCCAGACCTCATTAAACAGGAT  
TTGGTCACGGCCCACTGGATAGTGGGGAAGCCTGTGGGGTTGTCCATGTGGTGGCTGGCA  
AGCAGGGGCCCTGCTTTCTGGGGGTGCTGGTGGAATCACTAGACAGTTACCCTGTGGGTG  
CCTGCAACACTTTCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGA ACTCTC  
TGGAAGCTACCTGGAGGGTGATGCCAAGAGAAATTTCTGGGAAGCCATGCTCTGGGGAAC  
TGGTGGAATCCCTAGGAAACTGCCTGTGGGTATGGTGCCACTGAAATTCACTGN GAAAC  
CTCCTTCTGNAATTTTCTTTCTTCCTTTTCCCTTTTTTTTTTTT

### Sequence 1419

CCCTTAGCGTGGTGC GCGCCGAGGTACACATAAGTTTCATTCTTGGCTTTTAAATTTTAT  
GGAAAGACTAAATACATTTGTGCTATTAATCAAAATATGAATTTAGAAGGAAATAATTT  
TGTGTAAAAAATTGTATGTGGTAAAAATTTACCTAATTTAAAAATTGTTGTTCCATAATTT  
TTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGGGGTTGAAAAGTGGTGAAA  
GAACTAAACAAGTAGAAGAGGATTTCTAAAGCACTGGTCTCATGAAAAAAGTTTCATGTG  
TGACTGGGTCCCATGAGATTTAAAAAGAAATGTTTATACGATATTTCAAAAATTAATGT  
TGCTGTGAGGGATGACATGATACAGGACCAGAGTCTGTGTAACAACAAGTTTTCCTTAA  
AGTATTGATACACGCTTTTAAAAAATTGCAAGAGGTTTTAAGTTTAATTCAAAAATCTGTT

Table 1

TAACAGCCATTTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGG  
C

## Sequence 1420

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGG  
ACTATGCCTGTGGGCCAAATCTAGCCCAAGGCTTGTGTTTTGTAAAGTCCCTGTGAGCTA  
AGAATAGTTTTCATACTTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGTGTGTAT  
AATGTGACAGAGACTTTATATGGCCCTCAAAGCTTAATTTCTTATTGGCCTTTAAAGTT  
TGCTGACCCCTGATGGATGCTATAAAAAATAATTTCAACTATCAATACAAAGAAAACCAAC  
AACCCAGTGAAAAATGGGCAAAGAACTTCACCGTACCTGCCCGGGCGGCCGCTCAAGGG

## Sequence 1421

CCCTTAGCGTGGTCGCGGCCGAGGTACGACGTAACCTCCAGACATAGGCTTTAGACGTTCT  
CATGCCACCCTATCTTCAAAACCACAGAGAGTTCATGAGCCAGTCTTGCCCATCTCCAAT  
CAGGGAACCTTCTAAAATAAAATCTTAGCAATCTCCTTGCCCAAACTTCACCCCATCT  
TGGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATGAGGGCGTGTGGTTGGGAC  
CTGAGCATCCTCCTGTTGGGCTAGTGATC 3GGAGAGAGGGCTGTTACTCACGACTCCCT  
CCAACAGAATACCAGAAACAGGCAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGA  
AACCAGCCCTCACCAAGTTACCCCTGTAAATCCTTGTCTCCCATGCACCTCTACTTTGA  
GTCAGAAATGGATTCAATGCAGGCTCAGTTGTTGTATTATGTGAATGAAC

## Sequence 1422

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAAATCTCTTATCAGTCAGGGTTCAACCAGA  
GACACAGAACCAGTAGGAGACACAAACCCACGCAGGCACAAGAAAGGAGAACAAACCAAC  
ACGAAACCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGACTGGG  
AGTCAAGAAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCATTTCCCTCACCTGTAAAA  
CTGGATCAGAAATCTTACAAAAACAAAAACAAAAACCTCTTCAGTATTTCCCTCAAAC  
AGGATCCTCCTCACATCTGTATTTATATTTAAAAAATAAAAAACAGAAAGAAAAAGAAC  
AGCATGACATCATTAGGTGTGTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1423

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCATAGGACTAGTCACCTGTGCTTTTCATGG  
ATACTGCCTGGGTGGGGGTTCAACACACTTATAAGTTAGAGAGTTTGAGAGCCAGTGGA  
AGTAAGTGGAAGTTGTTCTGAAATAAGCCCTGGCAATTTTCTGCAATGAAAAGGAGCAG  
AGGTCATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCGCGTACTCTGGTTC  
GGGTTCAAGTGAGAGGCTTTTCATGAAATCTTAGGATTGAAGAGCTCTAAGTTCAGGAT  
ATCTCAATGTTGAGAAAGCCTGACTAAAAGAAGCCAAACCAAAACCATTTAATGTGAACA  
CAAACCTCTTTTCTTTTAGTAAGTTTTACTTTTAATACCAGAAAGTGAAGAAAAATT

## Sequence 1424

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTGGGTANT  
TTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNGGGNNAACCATNCTTNTNAANNNTTNTTTNANNCATNCGGGGANAGGNTTAN  
ANNNAACNTTAAANGCATTTTANNTTTTTNAAACCAATTTTTNAAAAANAATT  
CTGAAANANNTTTGGGNTTCAAATNAATTTTTTAAANCAAAAAAACTTTCTNCNAA  
TNTTANNTTTTAAAAAANAATTTAAAAAANGNTNTTATAAAGNGGGNTTGAAAA  
NNCNNTNNTTAGAAATNANATTCCATTTTTACNNGNTTNNNGTTTTNGGTTAAAAA  
CNNTANCTNGTTCCTNAAAAACAANACCCCTGNCNTTTGNGTNATTNTAAAAAATTN  
AACTTTTTCTNAAATTTTTTNGGNAAAAA

## Sequence 1425

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCATCTTAACAATATTAAGTCTTCTGATCCA  
TGGCCACCAATGTCTTTCCACTTATTTGGGTCTTCTTAATTTCTTTCAACAATGTTT  
GTAGTTTCCAGAGTAAAAGTTTATGCTTTGTGGCTAAAGTTATTCCTATCAAATTGTTT  
TCATGCTATTGTAAATGGGATTGCTTCTTTTTCTTTCTTTTTTTTTTTTCGAGAGAGG  
GTCTTGCTCTGTGCGCAAGCTAGAGGGCAGAAGTGCAATCTTGCTCACTGCAACCTACA  
CCTCCTGGGCTCAAGCGGTCTCCTGCCTCAGCCTCCCTAGCAGTTGGGACTACAGGCAC  
ATGTCACCCAAAAAATAATTTTTGATTTTTGTAGAGACAGGGTTTACCATGTGCG  
GCTAGGAAGGTCTTGATCTCTTGACCTCGTGATCTGCCAGCTCGGCCTTCCAAAAGTG  
TAGGATTACAGGGCNGTGAGCNGGTTTTNTTGNNTTGGTTNGAAAATGGANTTTT  
CCCTTTGCTGCCCAAGCCCGGGAANNTGCAAGGGGTGTGNATCTTAACCTCACTGGNAA

Table 1

CCTTCACCCCTTTTGGG

Sequence 1426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTA  
CTCTCAGTTTACTGCTAAATCCACCTCGACCCTTAAGTTTCATAAGGGCTATCGTAGTTT  
TCTGGGGTAGAAAATGTAGCCCATTCTTGCCACCTCATGGGCTACACCTTGACCCCCGC  
GTCCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1427

CCCTTTGAGCGGCCGCCGGGCAGGTACATATTGCTTAGAGCAGTGCTTTCAGATATGA  
ATCATTTCTAGAATGGATTATAGAAGGATGGGAGCTTTTAGTATTTAGTAGTTTCCTTTC  
TTCTCCCTAAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACAAA  
CTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTCTCTGGCTTCGGC  
CAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATCCCGTCAGGATCAGGAATGATGG  
CAGAGTGGCCCTGTTGGCTTTGTAGCTAAATTGTGCTCAGCCAGAGAAGAACCACGACCA  
ACAGAGCCCTAACTGAAGTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGT  
ACCTCGGCCGCGACACGCTAAGGG

Sequence 1428

CCCTTTGAGCGGCCGCCGGGCAGGTACAGTCTTATTTTCAGCCTAAAGAAATGGACAC  
TTCTCAGCATAGGCGGACGTGATTGGTTGTGGTGAATCCTTTTCCTAACCAGGATCCAT  
AATATCACAGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGCCA  
TGAGAGATGGTGGTTTTTAAAGTTGATTTGATGTTGGATGTAAGTAAGTCCTGTGGGAGA  
GAATTTTTTTAAATAAAAAATACTGTTTAAAGTGTCTCTTCTAACTTGATCTCTACCTT  
TTCCCTCTNCACTTCTAACTGCCCCCACCAGCTACACTTTCCAGTTTGAAATAATGA  
ACAATACCTTTTGTGACAGACCAAACCTTAATTTCTGTGGGCAAATGANGGGTTTTTTT  
CCCCCAACAATGAAACAAATTTTCTTTGAAAAAANTCTTCTCAAAGATGGTTCTTATTG  
NAAATAACCCCTTCC

Table 2

## &gt;Sequence 1

ACTTAATATTTATATCTTATTTTTATTATAATTTATTTATTTAACTATTA  
TTTTTACTATATTTACCTTATATAATATTTTCATTTCTTCATATTTATAT  
TAAACCCNCCCNNAATGGCTTTGCTCTGAGCTCNCTCCGGANGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGG  
AATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTTCTATACATG  
AAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCTCTGTA  
TTTCTTTCTAGTTTTTTCCCTACCATTCTTTAATCGGAGTATCCAAGCCC  
AATCACCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTTTCATGT  
TTTTTCTTCATGTGGAGTGTCTTTTGCCACCCTCTTAGCCTATCTGATCC  
CACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAATTTTC  
CCCAGCCATAATGATCTTTTTAACCTCTTTGAGCTTTTACTATTTATACT  
CTTTACCTAAACCACTAAATGGTTTTTGTGAAATGTGAGAAGATATAAAT  
ATGAATGGATAAAATACTGTATGTACAAAAATTTTAATATTTACAATA  
ATAGCAATTTTTTGTGATGGACCTTTTTAGGGAATTTTTATTTGGCTTTT  
AAGGGATTAGGGTTTATGCCTAATTAATTAATTACCATGCC

## &gt;Sequence 2

TTTTCTTAGCTCATCGCGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

## &gt;Sequence 3

TTGTCTGTTGCATCGAGCCGGGCGTNCGGAGAGGAGTCCTTTACTTAGAG  
TCAAGCTGAAGGAGCATCACAAACCCAAAGACTGTTATGTTGTGAAATTT  
AGGCTGTGTTTTAATAATACTGATGATGATAGGATGAAATAGTAATTTAT  
TGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTC  
GGAATCTCATTTGATCCTCATAGTTTTTTATTGGTTATTATTATCCTCATT  
TTACAGATACAGAACTGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTT  
GTATGCCTTTTCATCTGAGGAGGTTGAGGACAATCCCAAGTTAGAAAAATA  
AATGTCTTTAGCATTATTTTTCCCTTAATGTTTAGAATATTAATAAGTTAC  
TCAGATAATCTATTGGAATTTCTTCATGGCAGGGGGAAGAGGCTAGAGTT  
GGTTTTTGGTTTTTGTGTTTTGGCACAGGGTCTCACTCTGTCACCCAGGCT  
AGAGTTTTGTGGTGTGATCTTGGCTTACCGAAGCTTCAACCTTCTGGGGT  
TCTACCTCAGCCTTCCAAGTAGCTGGGACTACAGGGGTGCATCAACACGC  
CCCCGTGTACCTCGTCCGTTTAGAAATG

## &gt;Sequence 4

TGAGCCGTATGCATAGAGNCTGGCGTCCGAGGTACTCAGTTTCCTTATCT  
ATAACATGGGGATAATATTCGTAGCTACATCGTTGTTATGAGGATCAATA  
TCTGTAAAGCTCTTAGAACATGCATTTTTCTTGTAATAAATTGTAAGGTC  
TGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGCTG  
AGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGTCAGGCACAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGTGTAGGAGTTCGAGACCAGCCTGTCCAGCATGGAGAAACCCCATCTCT  
ACTTAAATACTAACTAGTTGGGCATGGTGGCGCCTGCCTGTGATCCCA  
GCTACTTGTGAGGCTGAGGCGGGAGAATCATTTGAACCCGGGGGGAAAGG  
TTATGGTGAGCTGTGACCGCCCCATTGCC

## &gt;Sequence 5

GGCGGCCGCCCGGGCAGGTACCATGGAAACCCACTCTTTCATTGAAAGGA

Table 2

AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT  
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCCTACTACCGGACTCTCCT

>Sequence 6

CATCTGTGCCNNATTTGAAATGCGAGCTTCACCGCGGTGGCGGCCGCCC  
GGGCAGGTACCTATGACCATCTTACATTATTTTATGGGTGGGGGGCATT  
GGCTGTGGAATGTGGGCAGTAACCTTGCACAGTCAGTAACCGTGTGAGTAA  
CGGGTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTAC  
ACGCTGGTTTGTGGGCGGAGGGGCAGGTTGGTGCCTGGGGTGTCCGGGCA  
CTGGCTGTGCATGCCTTCTTCTCTCTGTCTCTTGGCCACCTTTTCCAA  
AAAGTCACCAAGTGACCAATTCTCCAGTGTCTTGGGACTCAATGCCT  
TGGGCTTGGCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCT  
CTATAGTAGTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTC  
CTCAGCCTTTGCTTCTCACTATTTACTATTTGCGGGGCCTGGGGGTACCC  
T

>Sequence 7

GGGCGATTTGCAAGGCCTCTCCGCGGTGGCGGCCAGGTACGGATCAATTCC  
GCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGG  
ACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCAG  
GTGACCATCCAGCGAAGCAAGGAATGGTTTGGCAAATACTCGTTCCAGTT  
TGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGT  
AAAGCAGGATCATAGTTTCTTGGAACTCTCTGTAAGTCCAACCTTGGTTT  
GCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGG  
TTGCTCTTC

>Sequence 8

GAAATGTTAGTCCACTCACGTGGCCGAGGCGACCGGATGAGCAACCGAGA  
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACC  
AAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTACATCC  
TTTGGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGG  
AACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTC  
TGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATT  
GTATCCGTACCT

>Sequence 9

TTTCTGTTGTCTGTCCGCGGGGCGGCCGAGGTACCACATGCACTGATAGC  
TCTCTTTGTATGAACAGAGCTGTGGCAGGCCCTATGCCAGGGAGAAAGTA  
AGATTGGAAGAGCTTACCAAGGAGGTGGCATTGCACTGTGCTTAAGG  
GGCAAGAAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGGCTGAAGTG  
CTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCAACAGTCAATCATG  
ATGGCTGCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAG  
GCTGAGGGTGGGAAGATTGCTTGGGGCCAGGAGTTTGAGACCAGTTTGGG  
CAAATTGCAAGACCCTGTCTCTGCAAAAAAATATAAAATGTAGCTGAGTG  
TGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGAGAGGCTGAGATGGGA  
GGATCGCTTGGGCCTAGGAGTTGAGGCTGCAGTGAGCTATGATTGCACC  
ACTGCACTCCAACCTGGGTGACAGAGCAAGACCTGTCTCTAAAACCATTA  
AATTAATCAAAAAAAAAAAAAAAAAAAGTACCTGCCGGGCGGTCGTT

>Sequence 10

GGTGCCTTACCGGGTGGCGGCCGAACATCCATGTTTTAACTAGCACAGA  
CAAAACCTATGTGTTACTATCAAAATAAAATTTAGAAAAACAATTTTCTT  
ATAAAATTTTCTGTTTGTATTTGGACTACATAAACTGGCTTTAAAATTGA  
GAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAG  
ATCACAGCAATTAGGCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCA  
CATCTTACAAAAGTAAATTACGCCCTGTTTTTATTCTTAAGCACTAGG  
GTTAGGATTGTGATCTGAGCTTTACTAAATCGGAAAAGAAAATCTCAATT  
ATAGAACATTTAGTTTATTTATACCTTAATGCCCGGAGAGGTAATATTTT  
ACTTTAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAAC

Table 2

## &gt;Sequence 11

CGAAAGACCCCTATCAGGGGCGGCCGCCGACAGCTACGCGGGATTGCTGGC  
CTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCGCTGCCGTGAT  
GTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTCAAGCTG  
CAAGCAGTGACAGTGCCCAAGGGCTCTGATGTGTCTCTCACAGCTTGTAAG  
GTGTGAAGACAGCTTGCCCTTTGATGTGGGACTGGAGTAGGCAAAGAGTTG  
GTTCCATGCCCTTCCCCTTTGGTGGACCTTGGAAGAACCCTGGACTTT  
TGTTTTCTGCCAAAAGGGCAACCTGGCAATGATGTTCTGATGGTTTCGTC  
GTTAGGGCCATAAATGNTTGTAGGGAGGGTGGGGAGTAAGTAGGAACCC  
GCAATCCGGGAATCGCATCAACCCATAGGGCCCCCTTGATTTGTCTAAAC  
GACCTGAACCCCTTGTTGCTTCAATTTGACTAACAATTGTAACCTTA  
TTCTCCAGTTTTCCCAGGAGAACCAGGGGCGTTGTACCAACCCCTT

## &gt;Sequence 12

AGGTACTTTTTTTGTTTTGTATTTTTAGTAGAGATGGGGTTTCACCGTGT  
TGGCCGGGCTGGTCTTGAACCTTTGATTTCAAGTGATCCGTCCACCTCAG  
CCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT  
TCTTTTTTTTTTTAAACGAAAAAATGTTTTTAATTGACAAATAAAAAATG  
ATGTATATTTATGGTGTTTTTTCTCTTTTGCATCATCAGTCTCTTTCTCA  
TCACTGAAACCTACAAATATTTTAAAAATCTTCCATTAAAAAAATTTTGC  
TGATCATTCAACCTCTTCAAATTATTAAGAGATACTTACTTTGTATGAAA  
AATTTTGTGAGATGTATAATCCATTTTTTCTGGGAAGAGAGTCAGTT

## &gt;Sequence 13

TGGGGTTGCTTNCCATCACTTAGGGCGAATTGCGTCCGAGGTACCAGGTG  
TCATTCTGCAGCAGGATTTAACAGATGCAGATCTGGCCCCAGTGTGAGC  
ATCTGTGTTAATGGTATCAGACTTAAAGAAGGAAAGACCTGATTTGACTG  
CTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGTGGGAGGGA  
GTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGA  
CAAAACAGTAGAATCGTACCTGCCCC

## &gt;Sequence 14

CTTANNTGCTGAGACTTCTATCGCGGTGGCGGCCGAGGTACGGTATTCT  
CTTAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAGTTGCTTGGGG  
GACAAACAAGAAGGAAAACCTCTGAGACAGTGGTCACAGGCTCCCTAGATG  
ACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGG  
AGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC  
CCTGCCCATTTGCTGCATCCAGETCTCTTGATGCTCATATTCGTCTTTGGG  
ACTTGGAATAATGGCAAACAGATAAAGTCCATAGATGCAGGACCTGTGGAT  
GCCTGGACTTTGGCCTTTTCTCCTGATTCCCAGTATCTGGCCACAGGAAC  
TCATGTCCGGGAAAGTGAACATTTTTGGGGTGGAAAGTGGGAAAAAGGAAT  
ATTCCTTTGGGCACGGGAGGAAAAATTCATTCTTAGTATTGCATATAGTCCT  
GATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT  
TGATATTGAACTGGAAACTTCTGCATACCCTGGAGGCCATGCCATGCCC  
ATTCGCTTCTTGACCTTTTCCCGGGCTTCCAGTTCCTTGCATTGTTAGA  
TGATGGCTACCATAAGATCTATATGGCC

## &gt;Sequence 15

GAGGTACTGCTCCCTGCACGATCCAGTCAGCCCTGCCCGGCTGGTTATG  
TAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAATG  
ACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTT  
CCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAA  
AAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTTCTTGGATAACTGT  
CTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAAGAGAGTGTGATCATTGG  
AGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTGAGCAGCAG  
AGACAGCCAAGCGGCTGTGGGTGGCTTCCTTCTGGATGGTTTTCAAGGA  
AATCCAACAACCTGGAGGCTAGACTACGCTTGCTGTCAATCAGTCACTGC  
AGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGGCGGCCAG  
GGGAGGTGCTCGAGTGTATTGAAAGAAGAGTGGGACTTATTTGAGAAGTT  
TTCCCTTATCAAGTAACAGAGCGGGGGTGTGCCCTGACTTTAAGTTTGT

Table 2

TACCAGCCCAATTCCGAGAGACCCTCTCCATCAAAGG

>Sequence 16

TGGTCGTTGATTCTCCCGCGGTGGCGGCCGCCGGGCAGGACGCGGGAAG  
AGGTAATTTTAATGCCATTTTCATGGGACACTTGGGAGCTAGATTAGAAG  
AAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGGAAGTGGTGAAGG  
TCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGGGG  
TGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAT  
CTGGGTGGTGAGTCAGTCGGTATTGGTGACTTGTAATCATTTTCGGTTGG  
AAAACAGTTTGACTGTGCGCTCTTTCATATTTTAACTTTGGAGCCTCTCG  
CCTTTCTAATTTTGTGTATTCTCATTTTTACTGGTTCACTTTTGGGGTTA  
TCAGAACCCTCCGTTTTTAAAAATTTTCCCGGTTTCCAAATTTCCCTTCC  
CTTAAATATTGTTCAATTTTGGCCCTTTTGTAAATTTTCTAAAAATTTTCC  
ATTTTCAATATTTTGGATGCTGTGAAATTTTAAATAAAATATCTGTTGG  
CAAAATTATATTGTTTACCATATCAGTCATTGGGGTTCCTTGCCCTCATT  
ACATTCTATACCCCTTTGGCC

>Sequence 17

GGGAGTCTGTGCTCATTCGGGTGGCCGGCCGCCGGGCAGGTGACTTTAG  
TCCTCACTCTGTGGGCAGGGGCATTACAGCATAGGGGTCCCTTTTGTCAG  
GGATTTATGATGGCATCACACGCAGGATTCAGAGAGCATGAATTGAAAAA  
TACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCCAGCACTT  
TGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCTGGGAGTTTCGAGACCAGT  
CTGACCAACATGGAGAAACCCTTTCTCTACTAAAAATACAAAATTAGCCG  
GGCGTGGTGGCACATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAG  
GAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGCGAGCCGAGATTGTG  
CCACTGCACTCCAGCCTGGACAATAAGAGCGAACTCCATCTCAAAANAA  
AAAAAAAAAAAAATGGTACCTT

>Sequence 18

TGGCGATCGAGACCTNACCGCGGTGGCGGCCGAGGTACGATTCTACTGTT  
TTGTCTTCTAGGATCAACTCGGTCATTACCACAGCTCAAACCTGCTTTGG  
GACTCCCTCCCAAAAAGTGGCTCCGGATCAGGGAACACTACCAAACCA  
CAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACA  
GATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAA  
TGACACCTGGTACCTGCCCC

>Sequence 19

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATTTTFTTTTTTTTTTTT  
TTTTTTTCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAAT  
TTCTACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCTT  
TGGTGTTTTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCT  
TAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCACTGGTTT  
TTTTCCCTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAG  
GTGGGCGGGGAGGGGGCTTCTATTGATTTAGTGGCTGATCAATGCCAG  
TTACCAATTATTGGTAGCCCCATTTATACATGGTGGAAAAAAAGTACCT

>Sequence 20

TGGGGTGTTGGCTGGTAGCGCGCTTCGGCCGAGGCACCACAATTTTTTTA  
AGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTCAAGGGTGTCCATTAAA  
AGAGCATCTGCGAATTGTTTTGCAGGGACTCCTAATCAGTCAGGAGAAG  
TAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCACCAGG  
ACACAGCTCCTCTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTG  
CCACAGTCTCCCTGGAACAGCAGCAGGCTTGGGGAATGCTTCCAAAAGG  
CTATGCCATTCAAGGTCTCAGGTTTTTTGGTTAAAAATACAACCTTAGGCC  
AACTGCAGTGGCTCATGCCTGTAATTAATCCAACCTCTGGGAGGCCCGAG  
CGGGTGGATCTCCTGGGGTCAGGGGTTTGAGACCAGCCTGGCCAACATGG  
TGGAACCCCATCTCTACTAAAAATCCCTGTGGGTACATTTAATGAGGAAA  
AAAAGGTCTTGCCCCGGCCGGCGGTTTAAACTAAGG

>Sequence 21

TGGGGAACGTTGTTTCGACTCCGGGTGGCGGCCGAGGTACGATTCTACTGT



Table 2

TTTGTCTTCTAGGATCAACTCGGTCATTACCACAGCTCAAACCTGCTTTG  
GGACTCCCTCCCACAAAACCTGGCTCCGGATCAGGGAACACTACCAAACCA  
ACAGCAGTCAAATCAGGTCTTTCTTCTTTAAGTCTGATACCATTAAACAC  
AGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGA  
ATGACGCCTGGTACCTGCCCC

>Sequence 22

TTATGTACGTCGACTCACCGCGGTGGCGGCCGAGGTACAGAGTAGAGAGA  
GTTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGG  
CCTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTA  
ACTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTT  
GAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGA  
AGAAAAGGAAGAGAGCAGTTTGGGAAGCTACTACTGTTGTCCAGAAATAT  
GTAATGGTGGCTTGGCCAGGGTGGTGGATGNNCATAATTTTTTTATTGTG  
TGAAATTTATTTCTTATTAATTTTTGAAACAACTTACTAACTCTGAGTA  
TAAAATTTAAAGACTGGGTTTCCAAAATATGATTCTTATTTTATTGAAT  
GTTATAGCTCTAATTGTTCTTTTTTTTTTCTGATACATTATTTTCTAC  
TATATTACTAAATCTTAAATCTCGGTTAGAGTCTGATATATAATGGGTC  
CATTTTAAGTGTCTCTCTTTTTTACAAATTGCGTAGTAGTTTGTTTTTT  
TACTTTTAATTAATATAAGTCTTTTAATTTTTTTATTTTTT

>Sequence 23

GGGTGATGAGACTTCATCGCGGTGGCGGCCGAGGTACACAGTAGAGAGAG  
TTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGGC  
CTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTAA  
CTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTTG  
AACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAA  
GAAAAGGAAGAGAGCAGTTTGGGAAGCTACTACTGTTGTCCAGAAATATG  
TAATGGTGGCTTGGCCCAGGTGGGTGGNTNNNNATATAAATTTTCTTTT  
TTACATTGTAACTCGTCTACTATTTCTCAACCAAATTATATATTGGTCC  
TCATTTAAAATAAGAACTAGTTCCTCAAAAATGAATATATCTAAGGTCTTA  
CTTACCGGTATGAGAACCATTTTAACCTGTTTGGCCCGCTTATATTTATT  
GAATTCATCTATTTTGCCTGAATAGAACAAATTCGCTTCTGGGGGCCTT  
ATTCGTTATTTTTCTATTTAATTGTATTCCGTCATTCAATAGTGTGGGCC  
GAGGGTCAGCTTTTGTTTACTGTTTAAGTTTTTTATCCTCCTAATATT  
TATTGACAAAAAAT

>Sequence 24

TGGAGTATCCTCACCGCGGGGCGGCCGAGGTACAAAAAAGCACAGCCTG  
GCTCTGGGTAGAGACATGCTGACTGATGAGATCACCAAGGCAGCTGCAA  
AGGAGAGTCCGGTAGTGAAAGGCAATGCGCTGTAGCTCTAAGCAGCCTT  
GCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGG  
GCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCA  
TGGTACCTGCCCC

>Sequence 25

TGGGGNATGTATCAGCTCCACCGGGTGGCGGCCCGCCGAGGTACGCG  
GGAGGCACATTCTTTTCTACGTGAAGAGTTTGTAACTGAACCTTTGTTT  
TCAGTTCCGGCTCCAGCCATCCTGGGGTAGCTTGCCAATAGATGAATCCC  
ACTCGTTTGACCCATGACGCTCCTTCTTTTCAATTTCTCCTCTTTCCCA  
CAGCAGTGCATGTCCACCATAACCCTGAGAGTCTGTGGAATCTAATTTT  
CTGTTATACTTCTTTCTTACACTCATTTTCTGTCTTTATTATGATAGT  
CTAACTTTTTTCTCCTCAAAGGGATAGCTGCCTTGCTTTCATGAAAACACA  
CTTTTCTAATGGGGAATTAAGAAGGCCTTTCCATTTTAAAGCCCCATG  
CCTTGACAGAATTTATTAATAAATAGGGCCTTTCAAAGGGGAAACCGTTC  
CAACATGCCTACAGAATGTTTATAACCATGAAATATTTACTGGCGTTAA  
GTCCAAAATGCTGACTATCCTGGTCCGTATCCTTTCGACCACTGTTAATG  
TATAATTTTGCAGGTGAATGGTC

>Sequence 26

TGGGATGTGCCTCATCGGGGGCGGCCGAGGTACGGATACAATTCGCTGA



Table 2

GTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGT  
AGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACGGTGAC  
CATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTA  
GCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGC  
AGGATCATAGTTTCTTGGAAGTCTCTGTAAGTCCAAGTTGGTTTCGCGGA  
CATAATTGTCCGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCT  
CTTC

>Sequence 27

CTCCCTCATATTACTATTCTATCTCGTAATTATTGTTAATTAATTTACAA  
TATTTTATCAATTAGTAATCTTTTCTTAATTTAACAANNANCNCANNNTT  
GTCTGTTGTGATCCGCTTCCACGCGGGCGGGCCGAGGTACGGATACAA  
TTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGA  
AAGGACAGTAGCCAGCTTGTCTGGATGCTTTGCCAAGCAATTGACTCCAT  
CACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCC  
AGTTTGGTAGCATTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGG  
ATGTAAAGCAGGATCATAGTTTCTTGGAAGTCTCTGTAAGTCCAAGTTGG  
TTTCGCGGACATAATTGTCCGATTCCGGCTCAGCATCTTCACCTTTATC  
TCGGTTGCTCTTC

>Sequence 28

TGGACTGTGCGCCTTTCCGCGGGGCGGCCGAGGTAAGTTTCCTTATC  
TATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAAT  
ATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTTTAAGGT  
CTGGCAGGCGCGGTGGCTCACACCTGGAATCCCAGCACTGTGGAAGGCTG  
AGGTGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGGTCACGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTGT  
ACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGATCCCA  
GCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTCTAG  
CGCCGACCCGGCAGGACGCGGTGAT

>Sequence 29

TGGATTATGTTGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTTTCCTT  
ATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATC  
AATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTTTAA  
GGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAA  
CTGCTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAA  
ATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTT  
AAGAAACCAGACTTAAACATTGAAAAAGTTAAACATTGGCCAGGCACAGGG  
GCTCATGCCTATAATCCCAACACTTTGGGAGGCCAAGGCAGGAGGATCAC  
CTTGAGGTAAGGGTTTCAGACCCGCGCTGACCACATTGAGAAAACCCCTT  
TTTCTTAAATCCAAACCTGTTGGCT

>Sequence 30

TGGGGATGTTGCAGCTCTGTCCGCGNGGCGGCCGAGGTAAGTTTCC  
TTATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGA  
TCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATTTT  
AAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGA  
GGCTGAGGTGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAA  
ACTGCTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGA  
AATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGT  
TAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAG  
TGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATC  
ACCTGAGGTGAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCA  
TCTCTACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGA

Table 2

TCCCAGCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCTCGGAGG  
TCGAGCGGNCGCCCGGCAGGACGCGTGGGATGN

>Sequence 31

GA CTGATGTCGACTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTAT  
CTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAA  
TATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGG  
TCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGC  
TGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAC  
GCTTTCTCAGAAATTAAGGCCAAAAGTCTTACTGACCATGTAAAGGAAAT  
CCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAA  
GAAACCAGACTTAAACATATGAAAAAGTTAACATTGGGCCAGCACAGTGG  
CTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAAGATCACC  
CTGAGTAAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATTC  
TACTAAAAATACAAAAGTGTGGCAATGTGG

>Sequence 32

TGGGATGTGCCCCCTCCGGGGGCGGCCGAGGTACGTATGCACTTGCTTGCC  
ATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTACTTTGATTCTC  
TGACCAAAGTGGCCTGTGAGCACCTGGGCCTTTCTTCTCTGTCAAAGG  
CCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGT  
AAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGA  
AAAGGATGTAAACGCGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAG  
GCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGA  
GAGTAAGCCTAAGCAAAGTCAAGTGGGAAGGGGAGTGGGCTGTAAAATAG  
TTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGTAGAAAGGTAA  
CAGTCAACAGTTCCTTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTC  
CTCTTGCCAGCGTTTCTTTCAAATCTTTGCACATGTTATTTTAGAGG  
CAAGTTCAGTTCTAGAGGAGCTGGCCTGC

>Sequence 33

TGCCTGATGTTTGATCGAGTTCCCCGCGGTGGCGGCCGAGGTACGTATGC  
ACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTA  
CTTTGATTCTCTGACCAAAGTGGCCTGTGAGCACCTGGGCCTTTCTTCC  
TCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGA  
CAGAGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACA  
TTCTACGCGGAAAAGGATGTAAACGCGGGCCACATCCTATGCCCAATCC  
CAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAA  
TAAATGACTTGAGAGTAAGCCTAAGCAAAGTCAAGTGGGAAGGGGAGTGG  
GCTGTAAAATAGTTTAAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGG  
GTAAAAAAGGAACAGTCAACAGTTTTCTACAAGACAGTTTAAAGCAGCA  
GTTTTGGGGAGCATTCCTGAGCCTGGG

>Sequence 34

TGTTACGATGCTCATCGGGGGCGGNCGAGGTACCAGTTAAAGTCTTCTAG  
CCTGTATCCCCACTCCTTTTTGCCACTTGCAAATTCGGTAGCCAGTTAC  
CCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGGGCTAATATGA  
GTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCACCCCCAT  
CATTAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAC  
GCATATTTGGAAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAA  
CTTACAGTATCTGTTTCCACAATACTTGCAAGTCATATCAGTTACAACCG  
CTGGGTGTGTATTGGTTCAAAGGACCTACCTACAAGGTTATATCAATCC  
ATTGTCCAATTTGAGAGATTTTTTCTGAATCCAGTTAAAATAATTTTGG  
CTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC  
CAAGAAAGCCAAAAGGCCCGCAACCTTGTTGCCACCAGATCCCCAAC  
AGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTAACACTCACAGG

>Sequence 35

GGTATGTTGGNCANTTTAGAAGCCCTCTCCGCGGTGGCGGCCGAGGTACG  
GATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACAG

Table 2

CCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTG  
ACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGTCAAATAC  
TCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCT  
CAAAAGGATGTAAAGCAGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCC  
AACTTGGTTTTCCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCAC  
CTTCATCTCGGTTGCTCTTC

>Sequence 36

CTAATTACTCTATCGATTTCTTATAACTCTCATATGATATATTTGTTTCAT  
CTTATTCATGCTTCAATTAGACGGTTTACTATACTTTTTATTCTACCAAC  
GTACTTCTCATTATCTACTATAANNNTATAATGANTTTTTTGGCGTCTTC  
GAATCCCCGTCGAGGTACATTTGTGTTTTATTGTGAAGGGTCCTCAACTG  
TGTGGCTGATTCAAGGCTGTCCCCACTGCAATGTATGGAGAGGAGAGAAAG  
GGATGAAAGTGAAGGCAGGGGGGGGATGTTTGTTCACGGGGTGAACCT  
CTGCCTGAGCAAGTTGATGTTGGCTTCCGAGGTATTTGGACACTTCTTT  
CAATACATTTTTATTAGCACTTATTCTGTGTCTGCTGCCCTGGGATACC  
AGAGTGAATAAACAGATTAAAGGTCCCTGCCCTTTTGGAGCCTACAGTC  
TTTTGTAGAGAAAATTGAATTGATAAACCATACCTTTTTTTTTTTTGA  
ATTTTGGTGGGTTTTTTTAAAGGTTAGAACAAATGCTTAGGGTGGGAAAG  
GCCCCACAGAAAGGGGTGAGGGGGAGTTACCTTTCCCGGTCTGGGCCCT  
TTTCAGGGATTAACCCAGGAAATAAAACCTTGTAGGCAAAAATGGCCCAT  
CAAAAAGGCCAAGGAACCGTTAAAAAGGCCCCCGTTTTTGTCCATTTTT  
TTCATTAGGGTTTCGCCCCCCTTCCAGGGCTTCACAAAAATTCGCCC  
CTCTAAATTAAGGTTGGGGATACCCCCAGGGCTTTAATATTCCCAG  
GGTTTTCCCTT

>Sequence 37

GGAGCGTTGAACCCNTTTTAGTAGCGCTCTCCCGGTGGCGGCCGCCGG  
GCAGGTACGCGGGGCAACATGGCGGCCTTAGCAAGCTATAGCTGCGAGA  
TTTGAATTACTCCACTCGTAGCTATTGCATTCCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTC  
TTCACAAGAAGAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACT  
CGGGTTCATATTCCTCAGCGAGTAGCGATTATGATGATCTTGAGCCTGAA  
TGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTTTTATTGGAATTGAG  
TGAGGATGAAGAAGAAAGCCTCCTTCCTGAGACACCAACTGTGAACCATG  
TCAGGTTCAAGTGAAGATGAGATTATCATTGAAGATGACTACNNNNANAA  
NATTTTTAAAAAAGTACCT

>Sequence 38

TGAGCGTACGAGCCCTCTCTGGGGGCCGCCGAGGTACTTAAGTTTTCTT  
CAGTTACAGCTACCATGTGAAAATAATTCTCTGCTTATCAAGTTTACAAC  
TTTAGAATTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACAGTCAT  
CTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGA  
AATCAACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAG  
AAGACACTGGAGACACAAAAATGAATTTGTCCAGGTGAGTTGATGTCAG  
AAAAGGCTTAATAATGGAGATGAGGCCGGGCATGGTGGTTCACACCTGTA  
ATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATCACTTGAGACCAGGAG  
TTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTTAAAA  
AATAAAAAATATTNTGTTCTGCCCCG

>Sequence 39

TGACGTTGATTACAGAGCCCTCACCGCGGTGGCGGCCGCCGGGCTGGTAC  
GCGGGAAAGCAAAACGACAAGCACGCCCTGAGCAGAGCCCCGGGAATTCA  
ACCTTTAAGTGGA'AACTTGGCTTCTGGTTGCCAAGGAACCAGGGCATC  
AAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTCAGGAGTG  
GGGATGATCTTTCAAATTATCCACAACCTTAATTATTTAATATTTTGATAG  
TCAATTACCTAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCA  
GTAGTTGGGCGCAGTGGCAGCACTTTGGGAGGCTGAGTGGACAGATCACC  
TGGGGTCAGGAGTTTCGAGACCAGCCTGGCCTACATGGTGAAACCCCATCT  
CTACTAAAAATACAAAAATGAGCCAGGCATGGGGGGCACCTGTAATCCCA

Table 2

GCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAA  
GTACCT

>Sequence 40

TGGGCGTTGACTGGATGCGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTA  
GAAACTGTGGGGCTGAGTCCTCGGGGCCGTGGGGCGCAGCGTGGCTGAT  
CACCATCATAACGGGCCTATGGGGATACATTCTCTTAGACATTTTGAAGT  
AATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTGCATAA  
TCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATA  
GAAGCGAGAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGA  
TG TAGCTGCCATTATATTCAATTGAGGTATTTTCAAAAAAGGCTGTTCTG  
TAGCCAGTGTTGTTAAGATATACAGCAAAAGTCCGAGGCTCATGCATGGC  
CTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTGTAGACATTGTGAT  
TGTGCACATACTTCCCGGTGAGCATGGAGGACCGTGACGGGCAGCACATG  
GGTTGTAGTCACAAAGGCATTGATGAAAGTGGCCCCCATGTTCCATAA  
TCTTTCTCGTTTGTTCATGACTTGCAAGGACCCAGCTCCACATCTTGA  
TCATCGGTAAGCACAAGAATAATGTTGGGTGCGATGTTTTT

>Sequence 41

TGGAGTGCTAAGCNAANTTCAGAAGCGCTCTACCGCGGTGGCGGCCGCC  
CGGGCAGGTACACGTGCACATTGTGCAGGTAGTTACATATGTATACATG  
AGCCATGCTGGTGCCTGCACCATGGCACATGCATATCTATGTAACAAAC  
TTGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAGA  
AAGAAAAACAGCATGCAATTCAGCCACACAAAAAAGAGTCAAAGAC  
AGCGAGAATTCTTAAACAGCAATAAAAGTATAAAGTCACTCTAAAGGA  
ATCCCCGTTAGATTAACAACACATTTCTTAAGAGAAATCTAACAGGCCAG  
GAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGAAAAAACTCC  
ACTCAAGACTACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAAAC  
ATCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGC  
CTTACCAAAAAATGCCCAAGGGAGTCCTACATCTAAAGCAAAACGACAAT  
CATCACGAAAACATGCAAAAGCATAAACTAACTTGTACCT

>Sequence 42

TGGTCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCG  
GACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAA  
CTATGATCCTGCTTTACATCCTTTTGAGGTCCACGAGAATATATAAGAG  
CTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTT  
GGAATCTAACTCAGCGGAATTGTATCCGTACCT

>Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTAT  
TTGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

>Sequence 44

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG  
CTGAGGTGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCT  
ATGATCACAACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACT  
GTAAAAAATTTTTTACATTAATTTTTTAAAGTGAGGTTTTTACCTGAT  
GATTGTGTAGGTTTCTCCTAGCTCCAAAGTATCCGGCTCCTACGACTCTA  
AATATAACCTTCAAGGAAAGTGGAGCTGGTTTACTCTTTTCTGATAATAT  
CAAGCCATTCTGGCTGGGCGTGGTGGCTCATGCCTATAATCCCAGCACT  
TTGGGAGGCCCGCGTACCT

>Sequence 45

Table 2

CCGGGCAGGTACGCGGGAATTCAAGATGGATTAAAGATTTAAACGTTAGA  
CCTAAAAGCATAAAAACCCTAGAGAAAATCTAGGCAATACCATTGAGGA  
CATAGGCATGGACAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAC  
CAAAAGCCAAAATAGACAAAATGGGATCTAACTAACTAAAGAAGGTTTTG  
CCCAGCAAAAGAAACCTACCTTCAGAGTGGACCGGGCAACCTTCCCGATT  
GGGGGAAAATTTTTTGAAATTTGGCCCTTTTGAACAAAGGGGTTATTTT  
CCCCGAATTTTATAAAGGACTTTTAACCAAATTTTCCAGAGG

>Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCC  
CTCCAGCCTGAGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAA  
GATGTCAAGTGTATTTATAGTAATACAAAATTTAATGTAATTTTTGTCA  
AAATCTCAATGGTATATTTTGCAGATTTTCAAATTATATATATATGAT  
TTATAAATTATTGTTATAGATTCCTGGAAAGTTAATCCATCTCACCATTA  
CATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAG  
ACCATCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATA

>Sequence 47

CACACACTCTTCTATTCTGCTCGCTCTATTTCTCGTGTCTTGCACTACGT  
ATCTTCTTCTCTATGTTCTTCT

>Sequence 48

GACGTAGTCTCTCCGCGGTGGCGGCCGCCCCGGCCAGGTACAAGGACATG  
CTGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCCCTCAAGACTTC  
AAGGCCACTCTCCCATAAACATCAGACTACAGATTTAGGTGGAAGAGCA  
GCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATT  
TCTGCATCTCCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTAT  
TCGTTGGGCTCCAGCAGTGCTTACCTTCTACAGCGTTCACTCATTTTGT  
TCTTTCCCCCAACTTTTTTTTTTTTGAACGGGGTCTTGTTTGTCCCC  
CAGGCTTGGAGTGCAGCTGGACTTGGTCTCTGCTTGATGGAACCTCTGG  
CTCCCAAGGTTTAAAGCGATTCTTCTTGCCTTAACCTTCCAGAGTAGC  
GTGGGAATTCAGAAATACGTGCGCAACCATTCGCCGGTTAATTTTTTAT  
ATTTTAAAGAGACCGGAATTCAACCATGGTGGGTTTAGGCTTGGTCTTG  
GAACTCCTCACCTCAGGTGGAAGCCACATGACTCTGGCTCTCCAAAGT  
GCTTGCCATTACAGGCGTGGAGCCACTAGGGCCTGACTTCCCTTTTCTT  
TCCTGCCCCAGGCCGAACCACATC

>Sequence 49

GCCCCCTGGGGGAAAAAAGGCCAAAAGTTGTTCTGGGGAAAAATTTTTT  
CCCTTCCACAATTCCCAAAAAATTTAAACCGGGGAAAAAAGAAAAAAC  
CGGTGGGGCCCCAAGGGGGGGCCCCACACCAAAATTTGTGGGGCGCCCC  
TCCCCCCTTTTTAAAGGAAAAAATCTGGCCCCCTTTTAATTAATACAC  
CCCCCCCCCGGGGGGGGGGGGTTAAAAATCCCCCTTTTTTTTTTCA  
TATATAAAGGGG

>Sequence 50

GGTAGTTGCATACCGTGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTAC  
CT

>Sequence 51

TGCGCTATGATGCTCTCCGTGGGCGGCCGAGGTACCTCAGCATATATTGG  
AAGTGTTTAGAGTTGGTGAAGTTCCCCGTGCCTTCAGAACTGAACGCTA  
GGAGGAGCAGCCAGTGAGGACAGACGTCTATGCAGAAACATGGGGAAACCT  
CTGGAAATGACACACTCTCCGGGCACAGGGGGCCATTTCGTCCATCTTGAG  
GTGGACTAATCATGGAGATTCTCGCAGGGCCGGCTGCTATCTCAGATTTT

Table 2

CTAATCGGAGAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCTGGG  
GGCTGATGAGTGAGGTGGCAGCAGGCATCCGCGTGGATTTGTTGAAACTG  
GACTTTTTATTGTGCTGAAAGCTGCTTGTGTGATGATCTCATACTTTGT  
AGTTGTTCTATCTGCAGCACTGACTTCCTAAGGGATTCTTCCAACCTAGA  
AATCTTTTCTTCTATGGAAGGCTTACAATCTTTTTCTGTGTTTTCTTG  
AAATTCTTAAATTTGGGAGGTTTTCTGGAGTACCTGCCCCGGGCGGGCGC  
TCGAAAATAATCTCTCTGCTCCTATCTTAGGTTACTATTCCGGGGAGCCC  
TGGATACCCCTTTTTTCTTTCCCACTGGGCCCTT

>Sequence 52

TAGTTGATGCCNATCTTTNGANGCCNCCCCGCGGTGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTGGCATTCTGAAAATTCATGAGGCTGTGTT  
TTAGGTGAGGCTATTTCTTCATTCACTGAACGGGGCACCCAACAGGCTCT  
TAATATGAAGACTTGGGCCCTTCCTGAGTTCTAGAAAAGCATTTTTACTA  
GTTCTTCAGTAATTTCCCTCCCTTCATTCTCTGTTCTCTTTTCTCGG  
ACTCCAATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAA  
AAAGGTTCTTAGAGGGAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGC  
AGAAGGTGCTAACAGGTGGGTTTCTCTTAGGATGAGCAGGTGGGATGCC  
AACTGTCAGGCTGGGACCTTCCCTCCAGTGCTAAAATGAAAGTTTTATT  
CTGGTCTTTGACATCCACACCAGAAGTCTTGACTTTCCTTCCGCGGAC  
ATTATATATTTTATTTTTATTTATCTATTATTTAATTTCTTCTATTATCC  
TTTTCTATTCTATTTCTCTGGGGGGAAGGGCCCCCTCGTTTATAAAC  
TGGGATTAATTGGTTCCATAAGGAAAACCTATTTTTCT

>Sequence 53

CACTTACTGAATTATGTCTTGACTATTATAAGTTATTACTCTATATTCAT  
TGATCTATATAATTTTATTTTTTACACCCAACCAAGATGTTTCTCT  
CGTTGGCGCGCCAACGGGGGCTGCCGAAGAGCGACCGAGATGAAGGTGAA  
GATGCTGAGCCGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAGGAACTATGATCCTGCTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAATGTATCCGTAC  
CT

>Sequence 54

ACTTATTACCTACATGTTACTTCTTATCTTTGTTCCCTAATATAGTATATG  
TTGAAATATTATATCATATTTTTGATATTATTTTATTAATAATTTATTA  
ATATTACTNNNNNTGGTGTGTTGACCATTTGGAGCCCTTCACGCGGAGGC  
GGCCGAGGTACACTGGGAAAATGAAGAACTTAACTACATAAAAAATAGAGG  
GACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGAT  
TTAGATGATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCT  
TTCTGTAAAACTGGCAATTTGGGAAGCATCACTGGATAAATTTATTGAAT  
CTATTCAGTCAATTCTGAGGCTTTAAAAGCTGGGAAGAAAGTGAAACTA  
TCTCATGAAGAAGTTATGCAGAAAATCGGTGAACTCTTTGCTCTAAGGCA  
CCGTATAAACTTGAGTTCAGACTTCCTGATTACTCCTGATTTCTACTGGG  
ACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTAGC  
ATTGGCCGAAGAGTTAAGGTCATGAATGAAAACTTAAGCACTGCATGGA  
ACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTTCGCT  
TGGAGGGGAAGATTGTCAATCCTATTACCATAGAAGGAATGGTTGAGCTG  
GGACCAGTTTTTTTTGATCAGTGATACCAAGTGACTGCAGAGATATTAA  
GTG

>Sequence 55

TCCTCCCCTCCCTTCCTTTGTTACATCATTTATTTATACTCTTCTTGCT  
TCTTCTATTCTCATTACTCACGTTATCTCCTTCTATCGTTTCTTGAC  
AGTCGTTTATTTTTNGACTNCNNNNNTNNTTGTGTTGACCTAGCTCCA  
CCGAGGCGGCGGCCCGCCGGGAGGTACTTTGCAAAGTGGATGCAGCA

>Sequence 56

Table 2

TTTCGATTGAGACTCTCCGAGGCGCGGCCGGAAGAGCAACCGAGATGAAG  
GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTT  
GGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTG  
AGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGA  
GTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGT  
CAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGG  
CGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATC  
CGTACCT

>Sequence 57

TTCTTCTCCTCGGTGCATATAATATTTTCTTTTCTTACGGTCCGTGA  
GTCTATTTATTGTTTTTATTCTTTTGTACTATAATTATTAANNNNNN  
NNTNNAATTCTTTGTGCTGCACGCCGAGGCACCGATCACTCAGTTTGTG  
CAAAGGAGAAACGCCACAGGGAATGGGCGGCGGCTTCACCTGGGGATAC  
CTGATGCCGTGTTTGTGGAAGATGTAGATTCCTTGATGAAACAGACTGGC  
AATGAGACTGCAGATACTGTATTAAGAAAGTGATGAACAGTACCT

>Sequence 58

TAATTTTATCTATTTCATATTATTGTTTTTACTCTGCTAATTTATATTTCT  
TTGTACATCATTATTTACTTTTTTATCATATAATATTTATTNNATTTCA  
ANNATTGTTTCTGTTTCATTGGAAGCCTCCACCGGGAGGCGGCCGCCG  
GGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTT  
CACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGTCAGGTC  
CAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACA  
ACCAAATATTGCCACATTCTTGAGGTCTATTGACACAATGGGAACCTCAA  
CCCCTACTTAGCTTAGCATTTTTTTTTTCAAAGAGTGAAAAGTGGTCCAC  
GTAGAGCACAATATAATTTAAGTAAAGGAAGATTAACATATTTTTATC  
CATTTCTTATGGTGGGAAATTAACATGTTTTAGATTTGAGGTCCCCCTCT  
CAGGAAACCTTTCAACTTCGTATTATTCACCTCTGAGTAGTATGGGGTA  
GAAAATGAGTGGAATCAGTTTGGCCACTATTTCCGAGTCTTTTGCAGTG  
CAATACTTTTCATCAATATTTACAATATTTCACTCCTGTTTACAGATGGGG  
ATCACATCAGGCTCAACCAAGTTACAGAATTCCTTGGGTTTTATCTGGA  
CCTTTAATTAACAACTAAAAGTTTTTTTTTACAATATTCCTGTTTTTAA

A

>Sequence 59

CACCGCTACACACTATTTTACTCGTAATAGTTTTTACTCATTTCCTTCAT  
GTTTTACTCCACACACAGACTCTTATTTCTTTATATATATTTAGATTG  
TTTTACTCTTTCTTATAGTTAATATNNANCCGGGGATTGGCATCCCCGCG  
GGGCGGCCGAGGGACGCGGGAAAGATCAGTTGTTTTACCTTGGCATTCAA  
AGACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCA  
CCATCAGCATGGGGGGGAACGTGTAGCACTGCAAATTCTCATTCCTCCC  
TAATTTTCTGAATCAGAAATTACGGAGGTGGAGCCCAGCAATCTGTTTA  
ACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGAGAACCGCTGAT  
CTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGT  
TAATTGACTTGTCCAGTCATACAGATAGGTTCTGTTTTCTATTATTTATT  
TATTTATTTATTTTTATTTTATTCACTTTACCCCCAGGATTCATAGTTT  
TCTTTCTAATACTCCATATTTGACTTGACTTTTTTACAAGTTGTAATTAC  
AAATAAGTCTAAGATGGGAAAGTTGTGGAAAACCTTTATAGAGAACATGAG  
ATTTGACTGAACAGTAAACATTAAGTAGAGAGGAAAGAAAGGGGTGTTCT  
AAGCAGTAGGGACCACAGTGAATAAAGGTAGAGATAGGTATGTTTAAAAA  
AAA

>Sequence 60

GCACCGCACTAGGTGGGATGCTAGCCGGATCCGGACAATATGTCCGCGAA  
ACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGGGGGTGCTTTACA  
TCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGT  
GATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCT  
TTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGA



Table 2

ATTGTATCCGTACCT

&gt;Sequence 61

TGGACGAATTGTTNCCGACTCACCGCGGTGGCGGCCGAGGTACACGTTAC  
TGTTCCGTCGTATTTTGTAGTCTCTGTTCTGCCCTTTGGAACATCTCTTC  
GGTGTTCCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAATAATCTG  
TTCAATAAATAATTTTTAAAAGGAGACAACAACGCCGAGGTGATCTGGA  
GGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAG  
ATCAGGCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAG  
AAGAGAGATGCAGCAGAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATC  
AAAGCATGAGAGGAATTCAACCTGCTGTCACTGGAAGGGGTCCAGATGGA  
ACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCTGG  
CTGACAGCTAGTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAAT  
TGACTTTAACCCACAGCCTGTGTGCACTTAGAAGCGGATGCATTCACAAA  
TCTTCCAA

&gt;Sequence 62

TGGGTCGTTGTCTTNTCCGCGGGGCGGCCGCCCGGCAGGACAATGATGGC  
TGTCAACTTCGTTTGTTTAAAAAAGACAATTTGAGCAGGACGACCCTCT  
CCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACGTAGGCTCGGAG  
GATGGGTACCT

&gt;Sequence 63

TTACTAACCCACGATTGGATTATTTACTCTATGATTTTAATTATTGCATAT  
ATTTAATA

&gt;Sequence 64

GGGATCTTTTTGTCTTNGNCGGGGGCGGTCTTCCGNCNGACNGCGGGGG  
GGCGNNGGGCNGGAGGAGAGGAGCGGCTTTAGNAGGGGGGCGCGGGCCNC  
CCCAGCAGANGNCNCCAGCAGCAGNNGNNCTTTGAGGCNCCANCNCCCA  
CAGCACCGNCAGNNGNCCAGCAGNCCAGGGGACCCNNGACCCGG  
GCGACGGCNGANCCAAACNCNGAAGGAGNCNAACTTTTTTCTCTTGAG  
CGNNGNNGNCCNCCCGCGACCCCGNGCAAAGGAAGCCAGCNGGAGGGG  
CGGNGNANNGACGCCCACGGGGGNCACAAACAACCNNNCAAAGGAAGAA  
NNNGCCACCCACCAANCNNAGCAANACAACANAGGAANCAANACAAACA  
NAACCGAAAAACGAGGAAAAAAAAAAAA

&gt;Sequence 65

TTGTGTGTTACGCGCCGAGGCGGCTGAGGGACTTTACTTTTTTTTTTTT  
TTTTTTTTGGAGGAGATGGACAGTGTCAGTCTCCTGATAAGGGGGTGATG  
GGTAGGTAATTTAAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTG  
CCCTGTCCACTGCAGTCACATCTCCAATACTGAAGGATCCTGAGAATAC  
GAGCGGGCATGACACTTACTCACGTCATTACCATNCTCGTTGTGCCTGC  
CCG

&gt;Sequence 66

CTGTTTGCTACACGCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCC  
CTAACTTCCTTGCTATCTTCCCATCCCATATTTAGGTTAGATAGAGAAGT  
GTGTATGTGTGTGTGTGTGTGTGTGCTCGCACAGTGATGAACTGTAAAC  
ATAAATGAAGATATGAAAAATACATCAATTAGGACAACATGACAATTC  
ATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGT  
ATAAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAA  
TTTAGCAGTCTGTAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCC  
TTAAGTGTATTTTTGTGACCTAAACATGAACTCAGGGTTTCCAAATTCC  
TAACAATGAATAGTG

&gt;Sequence 67

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT  
ACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC  
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCA  
GTGTGCTTAGACCAAAGGAAACCACACAGGGATTTCACAGGC

&gt;Sequence 68

GGGCGGGCGCTGACTTGGCGCTTGCGCATGCGGGAACCTCGGGCCTGCCAA



Table 2

GTGGATGAATGGATGGCGTCACGGCCCCGGGGGAGAGCCGGGGTGTGGAC  
GGGCCGCTGGTGGCGTTAGCTGGCTGACTGGCTCGGGTGGGCTGCAGGGG  
GCCGATGGCGGGTGGCGGAGTGAATCTGCCTCGAAAGCGGTAGCGCNGAG  
GCGCCCGGATGGGGGGGGGGCGCGGGGTGGTCGGGGAACGATGCCCAGN

>Sequence 69

GGTCCCATTTCATCTTGCACCCGCATACCAGGGATTGTTGCGAAGAATCA  
GTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGAGGTAAATTACTT  
AGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAAAA  
AGCATTGTTTTGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCC  
TCAGGTTTGTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCCGC  
ACCAGGGACAGCTCTGTCAAATTAAGTTGAGGTTGAAGAAAACCTTTGTCACC  
TAAACCATGATTGTTCAACAGGTTTCCATCTAGAACCAGGCGTTTTAGAC  
TAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGATATGCGATTATCA  
TCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTGCT  
AAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGA  
ATGCTCCCTCTTCTATGCTAACTGCAGAGACAGAGTTGTATCTAAATGT  
AATCTTCCAGATAGGGAATTTTTGAAAGTGAATCATAAGTGATAGTCCT  
TATGTTATTTTCTTGCAAATGTAACCTTTTTACATACTTTTGGGAGGTTG  
GTAGGGAATTCATTN

>Sequence 70

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCT  
TTGGTTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATAC  
TCAGCCACACAGTCCAGCAGACCTATATAGTTTAAGGTTTCATGTTGAAC  
AGCACTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGA  
CACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTAAG  
GTTTCCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TTGTAATAAAGACGTTTGAAGTGATTTCTTTAAAGCCATCTTCTCCCAGTT  
CCAGAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTT  
GTCATGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCCTTG  
CAAGGGGATTTTCAAAGGAACTGAAGGATCACTTGCAATTTGGTTTATCAC  
TTCTCTCTGGATTGAAGATAGGAAACCACTTTTGTGGCACTCGTCTGTCC  
TCACCTTGGTTTGGCAGCTTATGCTTGCTCAGGTTCCACAGAGCAAAGA  
TTTTTCTCCACCGATCCCGGGGTCTGGCCGACGCCTCTGGGTGACAAACA  
GACCTGACTAATTAGAGTTTTTTCTTGGCCCCCTTTN

>Sequence 71

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAA  
TGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGATAGAGAA  
AAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCA  
CAGGGATTTACAGGC

>Sequence 72

AGGTACATATATCATTTATTCAAGAGGCAGATTTTAAACGTTTTTGTA  
AAGCTAAATAACACCCAGAGTGACTCAAAAAATTTCTCAACTTTGCCCA  
GTGAATAGTAAGTCTAGAGTTTTTTGGGTTTTTTTTTTG

>Sequence 73

GCGTTTGGAGCAACACCGCGGNGGCGGCTGGNNGNTCTACCGCCCCGAAG  
CACACTNGCACAAAAGGGACTTTTNGATGGGTTATGCNNCGCCCTCCNN  
GNCCAGCNGGACCANCNATTTTTCTCTCCTCTGAGNCTGCCTTTAAA  
AGCTCATAAACAGTAGAGATCAGTTGTCTCTGGTTGCAAATCTAACATATA  
TTCATGCAATGGAGGNGNANCTTTTTCTTTTTTTGGTTTGGGNNCGCNA  
CGCGCCCNAGAAGAACNACGCCCCAGNAACGGGGGCGGGCAGNACCNGC  
CCCGGGCGGCCGNCAGAACCGGGGGACCCCGGGCGGCAGGAAANCC  
AAAACCAAGCCCAACGAAACCCGGGGACCCCGAAGGGGGGGCCCCGGGAC  
CCAGCANNANGGGCCCCAGAAGGAGGGGGAA

>Sequence 74

NAATATGACTACCGCGGTGGCGGCCGCGGGCAGGTACCTTGTGAGAA  
GAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAAAGTAGC

Table 2

CCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGGACAGAGCTTTTA  
TTTTGCTCCAGGTAAAAAGAAAAAAGCACATTACAACCTCTATGTCA  
GTGTCTGTCCAGGTCCTAGAACTGGAATAGACCAACCAAGCCCAACCCT  
TCTTAAAAGTAAGACTAGGTGCTTCCTGATTATATATTCAACTGCCTGGA  
AGCATGCAAGTAAATTTCCCTTGATGGCATTCTAAAGTTCAAACATATT  
CTTCCTAAAAATGCATTTACAAAAATATTAAGATTGTGTTTTTTGGTT  
TGGACTTTAAAAAAATTTGTTTTCAAAACCATAATTGGGGCCTACCCCAA  
AATGGATTCTCCTCCCTACAGTGGGGATTTCATTTTTCCAGTCCCCACCC  
GCTTTTTAATTTTTGATGACCTGCACCTGGTTGGGGGAGCCACTTGTGGG  
CCCTTAAAAACCAGCAATCCTTTTTGGCCCTGGCAGTGTCTTAAAAAGGG  
AAAGGAACAAGCCCCCTTTTGGGAAGGAAAGGGAGTTAAGCCCCGGAAGGA  
AATTTTTGCTTGATAAAAAAGGATAAAGGTGGGTTTGTGCCGGGAATTTA  
ATTTGGTTTTGGGTGGCCTCCCCACACACCC

>Sequence 75

TAGGTAGCGACTCCCCGCCGTGGCGGCCGAGGTGCGCGGGGAGGCGTTGT  
GGGAGGAGGTGCGGGGAGAGAGGAAGGGCCTGTGCACTGAGCAGGCATC  
AAACATTAGTGATGGCCTTGCCTCTCAATCTGCAGTAAAGAGGAACTA  
ATCTGAAAGGGAACGATAGGACTGTGTGTCTTTTTATTTTTTAAATACG  
GAGTGTGCAATTTTACTGAATCTTGAATCATGCCCAAAGAATGAGCTGT  
CGGTGCTGCAGTCGTGACCCAGGCTGA

>Sequence 76

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT  
TATTGGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
CTGAGGCTGTAAGTGAAGAGAAAGATTCTGGGGCTGTCTTATGAAAATATA  
GACATTCTCACATAAGCCCAGTTCATCACCATTTCCTCCTTTACCTTTTA  
GTGCAGTTTTCTTTTTTACATTAGGCTGGTTGGTTCAAACTTTTGGGAAG  
CACCGGACTGCTTCTTTCTTTTTGGGAAAGTGGGGTCATCGCATTTCTG  
CAAGGGCTTCTCCTCCTCTGGTCTTTTTGGGAGAACCCGGGGCTTTTTTCA  
CGGGGCTTTAGGGAAGTGGTCAGGCTGTTTTCAACCAGGAAG

>Sequence 77

CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAG  
GCATTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA  
CCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC  
TGAGTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG  
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA  
CACAAATGTTTCCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA  
CCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCTGG  
CTTCTAGTGAGCCTTGAAACCAGCGAAACAATAATCAAAGAGCAGTTCTT  
GTCAAGAAAACCATTAATTAGGTACCCTGGCCGCTCTAAACTTATGG

>Sequence 78

ATACCGAGGCCGGGAAGGCAATATAAGATGTATAAAGCCCTCGGGGTGCG  
CCTAAATGGAGGTGTAAGCTAAACTTCAACATTTAATTTGCCGGTTGCC  
GCCTTCACCTGGCCCCGCCTTTTTCCAAGTTCGGGGAAAACCTTGTTTC  
GGTGGCCCAAACCTGCAATTTAATTGAAAATTCGNGGCCAAAACCTGCTCC  
CGGGGGAAGAAGGCCCGGTTTTTGCCGTATTTGGGGGGCCGCTTCTTTCC  
CGCTTTTCTTCGCTTCAACTTGAACCTTCGCCTTTCGCTTCGGGTCTTT  
TAGGCTTGCGGGCCAACCCCGTATTCAAACCTTAACTTCAA

>Sequence 79

GAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTACAGCAGGCACACAACA  
GAGGCAGTTCCAGATTTCAACTGGTTTCATAGATGGGCGGGAGAATGAAAA  
CAGATGGTGCAGCCACAGTTCGTTTGATCTCCACCTTGGTCCCTCCGCCG  
AAAGTGACCGATGTCCTTCCATATTGTTTACAGTAATACACTGCAGA

>Sequence 80

GAGATGCCGGGGGTGCCGATATACTGTGCAGAGGTAAAGGATATAGTGGC  
TACGATTACGGCCTCTCT

Table 2

## &gt;Sequence 81

TAGATAGCTCCCGCGGTGGCGGCCGAGGTACAGCCAACCCCCTAGGTGTG  
GACCAGCTGAGGCAGGTGGGCAGATATGCAGAGGGACTTGGGGCTTTGCC  
AAAGGGTAAGCACAAAGAAGGAGTCACGGGTTCTGTTTCGAGGCACTGTTG  
GGATTAGGAGCCCCGAGGGACCTACTTTGCAGGAACCTAGCATAACTTTGT  
GTGACGAGACTGCACAAGACAAAGCTCAGGCAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCTCTGTATGAGTGTGACCCAGCTGAAGAGAAGAA  
ATGGAGAGCAGCAATTGGAGCTTCAGGACCGGCTTGCACTGTGGCTCCAG  
GTTATACCACCACTGCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAAT  
GCTGGAGAAAGCTGCACCCTACAGGCAACCAGCACTTTAAAAACCACTCC  
AGGCAAAGTAATGGAAGGAAAAAAGCCCTGCTTTTCAGTAACCTGGGCCT  
G

## &gt;Sequence 82

GACACCATACGTCTCTGTGTATGATCTCNCTAAGTCATATCGTGTAACGT  
GTACACTTACTCATTCAGCATATATNTCAACGTCAACTTCTGTTTCTCTC  
AGGTTATTATTTTCATACTACTTATATCTGTTTACATCAGTAACATCGT  
CATATCTCTACGTCTTTAGTGATCTATTGTATTTCTAAGAGAGACTCCGG  
TGGCGGCCGAGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGGA  
CATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAG  
GTGCCAGATGTGACATCCAGATGACCCAGGCTCCATCCTTTCTGTCTTG  
CATATTGGAGGAAGACAGAAGTCACCCATTAACCTGGCCCCGAACAAGTC  
AGAAGCATTTGCCAGGGTATTATGTAATTGGGTTTTCAACCAAAAAACC  
CAGGGTATAAAGCCCCCCTAAAGGCTACCTTGAATCTTATAGCTTGCCA  
TTTCCAGTTTTGGCAAAGGTTGGGGCGTTCCCCCAATTCTAAGGGTTTC  
AAGATGGGCCAAGATGGGATTCTGGGGGACAAGGATTTTTTTACCTTCT  
TAACCCAATACAAGGCAAGTTCCTGGCAAACCTCCTGGAAAAGAATCCTTT  
GCCAAAACCTTTACCTACCTTGCCCAAACCAGGGAGTTTAACCAAGTGT  
TCCCCCTTTGGGAACCGGTTCCGGGCTCGCCTTTCTAAGAAAACCTAAG  
ATGGGAATTCCCCCGGGGCTTTTGAAGGGAAATTTCTGATTATTCAT  
AGGCCTTTAATTCGAATACCCCGGTCCGAACGCTTTGAGGGAGGGGGGG  
CCCT

## &gt;Sequence 83

GATGAGTCGAGTGGCGGCCGAGGTTCCCTGTTGCAGCTCTTTATTTCTTA  
GTCCCACTCCCCGAGGTAAACACATTTCTGCTTTTTTAGCTGTTTCTCT  
AGTGTAGGTTACCTTTCTAATTTTGTATTCAATCACTTAACCACCGTTA  
CATACTACAAAATATCACTATATTATGACCATGATTATTTCTTTCTT  
TTTCCCTTCATCAAGGAAGTTCATCAAAGAATTTTCATCAAAGTTCAATGA  
TGACCTCTTTTTAAAAATTTCTTAGTATTCTATGTAACATTACCGATCT  
TTTCCCCACACACTTCAAAAACCTTTTTAATTATAATTTTTTACATAGCCC  
TTAGCACAAAATAACCAATCCTTTTTTTTTTCCCAATAAAAATGTGCCTTT  
CGTAACCTTTGTCTCTTTCTTTTACCTGGAATATTGCTTTTTAAGGCTG  
TTGTGCAACTTAGAACTTATTCTTATTATTCTGGGGTTTCTTTCCCT  
TTTTTTGTCTGGAATCCCTTTTGCCGGAACCT

## &gt;Sequence 84

CTCTCTTTTCTCTCTACTAGTACATCATACTAGAGTATCTNTGTATTT  
TCACACTGATANGGTAAATCTGTAATAACATTATTCTTTATAATGATAAT  
AATCTAATTCATGATCAATTATCTATAGATCGAATCTATACTCTTACATC  
TCGACTCTACGATACTTTAATATAGAGATGACTCCCGCGGTGGCGGCCGA  
TGTAATATGGCCTATATGGGATAGAAGGTATTTACCACGCACACAACAAA  
CGCAGTTCATATTTTAACTGCTCATCATATGGCGGTAACATGGGGACAT  
ATGGTGCAACCACACTTTCATTTGATTAAACACCTTGGAACCCCCGGCC  
GCTCCTAGAAACCTAATTGGATCCCCCGGGGCTGGCAGGAAATTTCGAA  
TATTCAAAGCTTTATTTTCGATTACCCGTCCGACCCTTTGTAGGGGGTGGG  
GCTCCCGGGTAACCCCAAACCTTTTTATGGTTTCCCCTTTTTAAGTGGAAAG  
GGGGTTAAATTTGCCGCCGGCTTTGGGGCTGTAAATTCAATGGGCTAC  
AATTAGACCTTGTTTTTCCCCTTGGTGTTGGAAAAAATTAGGTTTAATTT

Table 2

CCGGCTTCCAACAAAATTTCTCCACCACCAAACCAATTAACGTAAGCCC  
CCTGCGGGAGGCCAATTAATAATGTTGTTAAAAAGACACTTGGGTGGGT  
GCCCCTAAAATTGGAGGTTGAAAGCCTTAAACCTTCAACAATTTAAATTT  
GGCGGTTTTTGGCGCCTCCAACCTTGGCCCCCGCCTTTTTTCCACAGTTCC  
GGGAAAAACCTTGGTTCGTGGCCCCAGCCTGCCCATTTAAATTGAAATAC  
CCGGCT

>Sequence 85

TTGATGTGCTCACCGCGGTGGCGGCGGGTACTTATATTACATTATGCTAA  
AATGCAAACATCTTATGCTAAATGTTATATTTGGGAACAAATTGTGTAAA  
TATACTGATGACGTCAATGGATCATTACAATTAATGTAGGTGCCGTGGGC  
AGGAAAGCTAACTTTAGCTGAAAGCATCTGAAACGTGCTTATTTTAAATG  
GGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAA  
ATATAGTTCTTGTGTTGTCAAGAACAACAAATCCCATTTCAACAACAGAACT  
AACCTGGCATGCCATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGC  
AAGGATGGCATCTCAAGATTTTCCTTTGTTCCACGGGGAGGCCCTTT  
CTTTTAACTTCTTGAAAGCAACATATTTGGCAACAACCCTTCATTTTTT  
TCCCCGGTGCTTTACTGTTTAAGCCCTTGGG

>Sequence 86

TGTGAGACTCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATT  
CATCCACCGAGGCCCAACAGCATGGATGATCTGTTGCAGGGAAGCCTCC  
CTGCTCCCGTGACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCA  
ACAAACTGTTTGCTCTCTTCTTGGATTTCAAATCCACCAGCTTTTACCAG  
GGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATTCA  
CCACAGCATCAACAGCATGTGTGGTGAGGTATCTTTCCACACTGATAAC  
TCTATCTAGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTT  
GCCTTCTGAACTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCT  
GGAGGACTTCACACAGCTGACGCTCATTATTGTTTAAATTTTGAAGTCA  
TTGTGGTTAATGGGAAATTTGCCAACTATAGTTTTCTCCAAGAGCACCAA  
TCTCTGATTTTTTCATG

>Sequence 87

GTCTTCACTTTTACTTTGTTGCTATAAGTTTTTACTTACTTTTCATATTA  
TTGCGTTTATAATTTGTTTTATTGTAGTTTAACTTGCCTTGTACTTATT  
TATATTATTGTTATATTATAATAATCGACGCTTGACTACCGCGGTGGCG  
GCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTG  
AAGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGAC  
TGGCTGGGCACGGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGG  
GAAGGCCGAAGAGGACAGATCATCTTAGGTTTGGGAAGTTGGAAGACCGA  
GCCCTGTACCCAACGTGGAAGAAACCTCCCATTCTCTACTTAAAAATAC  
CAGCAAATTTAGTCTTGGGTGGTGGTTGGGTGCCATTGCCCTATTTAAAT  
CCCCAGCTTACCTTTGTGAAGGGGCCTCCGTGCAGGGAGTAATTCTACTT  
TGTAACCTCCGGGGGAGGGCAGAAGTGTTTGGTTGGGTGAGGCCCAAAAT  
TTGCCGCCCATTTGCCACTTCCAAGCTCTGGGGCAAACAAAGAAGCGAAA  
TATTTTTGTCTCAAAATTAATAAATAGATTTTTTATATTTAGGGGTTAC  
CCTGTCCCCGGGGCGGGGCCGGTTTTTAAAAAACTAAGGGGTGATTCCCC  
CCGGGGCTTGAAATGGAAATTTTCGATTTT

>Sequence 88

TCGGACCGCTTTCAAGNTACAGAGGGTGGGCGGAAAACCCCCGACCAGGG  
ACCTTATTAAGAAATACCAAGGCCCGTTTTCCCTCTGGGGAAGCTTC  
NCCTCCGTTGCGCCTCTTCCCTGTTTCCCGACGCCTTGGCCGGCTTAACC  
CGGGATTACCCTGTTCCCGCCCTTTTTCTTCCCTTTCCGGGAAAGGCGG  
TGGCCGCTTTTCTTCAATAAGCTTAACGGCCTGGAAGGGTATTTCTCAA  
AGTTTCCGGGGGGTAGGGGTCCGTTTCCGCTTCCCAAAGCTTGGGGCCTT  
GTGGTTGCCACCAAAACCCCCCCCCGTTTTAAACCCCCAACC GCGGTGGG  
GCCCTTTATCCCGGGAACC

>Sequence 89

CGGTCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTC

Table 2

AGCTCTGAGATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTC  
AAAGTGATTCTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTT  
TTTCCCATTTCTCCAGTTCACGTGTTAAATTCTCTACTTGTGATGCCAAA  
TGTGCTTTCTTCTTGTCTTTTCTTTCCATGCACCGTTTCACTTCCTCTAA  
CTCAAATGCCATTGCGCTGAAGTTCAGCTGCACTCTCAAAACTGACATTT  
GCTTCTCCAGGTCCTGTTTTTCCGCTCAACCCCTTTCCTTAATCTTCAG  
ACCTCCCCTTGGTCAACCTGATAAGTTTGAG

>Sequence 90

AGGTACGCGGGATCACAAAGCAGACAAACAGGAAAGACTGAACCATCTAT  
TTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATCTGTAATC  
TCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTT  
AAAAGTGCCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAAT  
TCAGTGTGACACAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCA  
GAGTTCTTTTCATCTGACTTTTGTGACATTTCCAGCAGCTGTATATTTAAT  
TCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAAGCAG  
GCATCCTTGAGCTTCTTCTAGGAACATATACAGATGTGCACAAAATTTTC  
ATTTATTCAGTN

>Sequence 91

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGC  
AGACAAACAGGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATT  
AATTGGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGAT  
TTTAATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCTCCCAGTAGGAA  
GAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCTGA  
TTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTG  
CTGACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAA  
ACTACAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAG  
GAACAAATACAGATGTGC

>Sequence 92

NGCGCTTAGGAGCNNACGNCGCGCGNGGCGGCCTGNCCGNNCNGTCGCAG  
CCCCANGAGGNACCAAGCANCCANCAACCCCTACCGNGAGNNGTGAGGCA  
ANGGCCGCCAGGCAANGGCACANCAAAANCCGGTTTTTCNGCENNAGCAC  
NGNGCACCCGAGAAAACAAGGNCNCAACNACNGACNGGCCAAGAAGGGGC  
CCGCCNNGGCCAACNNACCANACAGNNNAGAGCTTTTTTTTTTTTGGT  
TTGAGCACCGGGACTATCCTCTTGACTACAAAGTACCT

>Sequence 93

GCGATTGGAGCAACCCGCGGNGGCGGCCTGNCCGCCGCTACNNNAATCAN  
GGAANCNNNGCTNNNNGNCCAGATGCTTTGNCGNTTCTTTAGACACAGNG  
GCTNNNGCAGNNAACCCNACGTTTAGAACNGGGGGGCAGACCCCGAAGC  
NCNAGAACAGNGGACCCCGGGCGCAGGAANNCGAACAAGCNAANCGANA  
CCGNCGACCNCGATTTTGTTTTTTGGCGGAGCNGNNGNNGCCCNCTCCCGA  
GGGAAAAAAGCGCGCTCNGGCGAAGG

>Sequence 94

TGCCCGGGCAGACACAGCTCCATGAGGTCACCAAGCATCCCATCACCCAT  
ACCGGCAGTTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCG  
GGCAGCGTCTTGAGCACTGTGCAATTGAGTCAACAAGGTCTCAACTACTG  
ACTGGCTAAGATGGGGCCTGCCCTTGGCCAACTTCACCATAAGTTTAGA  
GCAATCTTTAAAGTGGCCTGAGCACCTGGACTATCATCTTGACTACAAAG  
TACCT

>Sequence 95

AGGTACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAG  
TTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAA  
CTAAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCCT  
GCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCG  
AAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTTATTA  
TAATACTGTGTGTAACCTTTTGCATATTTTCAGAAAAGAAACCAGTAAGG  
TGGGTTTCAGTTGTGGGCTCATCCTGACTTAGAAAATTTTAAATAATTTAG

Table 2

CCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTTGCT  
TCTTN

>Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACA  
CCCCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCCGAGTCGCCT  
CTCCCCGCGTACCT

>Sequence 97

GTATGTCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGG  
AGCCCCCTTCAGAGGGGCGAAGAGCAGTATCTTCAGAGGCCATCCAAGTT  
TTAGCATAACAAGGAGGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGA  
CAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGT  
TTGGGATGGAAAGAAATCGAGAATTGGGCT

>Sequence 98

GGTTCGATGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGAT  
GGCTTCAAGATGATTTAGGACTTGGGTGAGTACACTTACTGATGTAGTG  
GTTTGATACACACTGATTACCTTCTTCTTTTTTATTCTCTGGCATTCT  
CCTATATAACTAGCCACTTTTAAACAATATTTGTCGGCTCTTTTCTTCTG  
CTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTC  
TTCTTACTCCTGGCCTTTCTTGGGAGAGTTCATAATTCACCTACTCCAT  
CTAGATATTTGTGATGTCCAAACACATCTCCACGTTAGGCTTCTATTTGT  
AGCATCAGACCCACACTTTCACTGTCCACTAGATAGCCTCACTTGGATG  
CTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAAACAGGGAAAAAATAT  
TAATAGGAAAAAATATTAGATTTTATCTGATGTTAATATTTCTATGTGG  
CATGGAGGACTTCACAGANAAAAGTGAAAACCTCTAAAGCAGTTAGATTTG  
AGN

>Sequence 99

TCTCTTACACACTCTATATGCATATAATTACAATCCTGTTTATATAGTAT  
CTTTCTTAGTATATACTAACATCTATTAGTCAAAATATATATATATAGAT  
TATACTAATTATCTAAACATCCNCANTAAAGAACAGTTTCCATTGCA

>Sequence 100

GGCGAGGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAATATGTTTAAATATGCATATCATCCAGGC  
AGCATAATGTTATATTTCAAAGACAGATTTATCCATTGAATTATTGTTTT  
TAAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAATTTCAAGAAT  
ATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTC  
TCAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCA  
AATTCGAGGCAGCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCCA  
TTTGCTGATTCTGGGGGGGCTTCCCCAATGGCATGTGTGCTCCTTTGGAT  
GCCTGCAGGGGTGGTCACTGCAAAGTCGTCATCTGTGCCACTGGGAGTTG  
GGAGGCGGCCTGCTGGGGTTCCCTGGGTGGCAGGATTTACACCTGCTCCT  
CCTGCTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCCTG

>Sequence 101

CTCTTCATTTACACTCTACTGTATTGTTACTATAATATACTTATATATCT  
TTTCAGTCTATAATTTGTATCTTATAAATTTTATTATTCGTACTTTCTAC  
TCATTATTATATATATTACATATTAATATTTAATATTTTAGTTAGGAGCT  
CACGTGGTGGCGGCCGAGCCCAATTCTTGATTCTTTCCATCCCCAACTC  
TTTAAACTCTTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTA  
TCACCAGCCTCTTCTCTGCATTCTCTTTCCCTCCTTGTTATGCTAAACT  
TGTGATGGCCTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGTCTCC  
TCAGGGGAAGGTACCT

>Sequence 102

TCGAGGTACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTT  
TATAAGATTAATAAATAATGAGGTGGTGTGAGTGGGGAGAGAAAAAAG  
CAGGAAACAAAACCTGGTGAGAGGAAATGACCCCTGATGAAAGATCTTAA  
ACACCAGGCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTCAC  
TGAGGTTTGATGAAGAGTCACTGAAGTGTCAAAAGAAAACAAGATTTGA

Table 2

GAAAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGA  
TTAGAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGG  
GAGGGACGCTGGATGTGAGCAGC

>Sequence 103

TTCGACGCGAGATGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTCTT  
GTTTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAA  
TTCTTAAGTCCTACCTCATCCAACCTTGTTTTGACTCCTGCAGTGAGCAC  
AGCTTGCCCTCACCTCCCCCTCTCTATGCCCTCACCTTTGCAGGAGACTC  
TCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATT  
TTTTCTAAAAGACATTTGTTCCCAATGTTCTCTGACTAAAGTTCCCTAC  
TTTGGGACATTTGCCCTTGGCACCTCAAGGGCCCTTCAAATACGGTTGAG  
ACCGAAAATTTTTTAAAACTCTAAAACAACCTTTGAAAAATTGAATTTGG  
TGTAATTCGCGCCGGTGGGAAGACCCCCCGCCCTCTTTTTTGGGGCTAT  
ATTTTCACCTTACCCCCGGGGGGGGGGGGTCCCCCAAAAATCTCAA  
TTCCCTTATAAATTTTCAGCGCGTGGACACACACTTTCTAAATCGCGCGC  
GGGTGGGGCGGTCTATTTCTTCTCTCTCTTCTTCTTGTGTGGGGGGC  
CG

>Sequence 104

TCGAGTGGATGAGCTCCCCGGGTGGCGGCCGGGACACGTAACAGGGTGGT  
TGCATGCATTCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAG

>Sequence 105

GACGATGTGAGCTACCGCGGTGGCGGCCCGCCGGGCAGGTACTTTCTAGG  
TATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCCG  
AAAAGTATTTCTGAAAGGGAGCATATTTTGGAAAGTGATAGGCTTGTA  
TCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACTAGAATAATCTTG  
TGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAACAATACTTTC  
TGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTTGCTCTGGAT  
TCAAGTTTTCTTCTTAGTTTTCAAAATTTTAAAGGGAAACCAAAAATGTTT  
CATGGCCCAACTTTGCAGAAAAGGATTTTCTCAAAAAAGAAATTAAGG  
GGGGGTTTTTTATGGGACCCAAAAGCGTGTGGCCAGTTTTAGTAATT  
TTATAAGTTTTGGGACTCCTCTAACACCTTTTTATAAAGCGCCCCCTTGG  
GTGGGGGGGGTTATTTTTGGGGGGGGGGGTAAAAAAAATTTTTTTT

>Sequence 106

TTTTGCGTGAGCACCCTCGTCCGGTAGTGGGCAGCGATCAGGGCTGGGG  
CTCTTTCCTGAGTTGTGTCAGGTGAGAGATTGTGAGAACTTGGCTTGCAG  
GGTTTGGGCATCAGCTGCCCATGAGGGGCCGTTCAATTGTCTCAAAGTGA  
ATGTGGGGTGGTTTGATCTGCATGTGTCATTTGTATCCACACAAGTTAAT  
TATTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGC  
GTCTATGTGCAGCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCA  
CTCTTAATTTATGGGCACAATTTAGTTTCTTCCACACAAATTTAGGCCTT  
AACTCTTTATTTTTTCTACAGTGGGGGTTTGGAGTAATATTCATACGG  
CATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGTTTACATCCCTGA  
TACCTCTCCAGACCGTGACTGTCCAGTAGTTGGAGCACAGTCTGCTTAT  
TGTGGTCCACAG

>Sequence 107

TGTTTTGTGGTCAACCACGCGTCCGAAATAATTGCAGAGAAAGCTTGCCA  
ACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGAAGTTGA  
TGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCT  
AGTAGTGCTATGTCATTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGT  
CTTGGAATAAGGAAACATCAAGAATAATGTAAAAGCCTCATATACAATA  
ATGAATAATAAGAATAATGTGAAGGCTTCAATTCAAGGTGGGGTTTGCC  
AGATACATTGCAACAAAATGACAGAGCAGCCAAGGTATTTAGGATAGTGG  
CCAAAGGATTGTAATGATGGCTTATGGAAGTGTGAGTGGATAAAGAGTG  
AAAATGAATAAAAATAATGGATTGGTTTCAAGTGAATAGCAGACGGCACA  
ATGGCCCATGGCCGTTAGAATAGGGACCCAATTAATGGAGACCAGTCA  
AGTGGGGGGGATCAT



Table 2

## &gt;Sequence 108

TAAATGTGCCCACCGTCGAATGGATTCTACATCAGGTGTCTGTGCCTCGC  
TGCTGAAGGATAACCCAGAGTGCAAGGTCATCTTTGTTGCTGAACAGGGC  
TGGACCTGTGCGCACTTAAGCACACTTAAAGGATTCTATTCTTCATTTCAGG  
TCCCCAGAGAAATTTGGCTCCTTATTTTTCTTTACCTATTCCTAGACTTC  
CTTTTGTCTAGAGCCAGTTTGTCAAAGGGCACTTTTATCCATCTCAGTTA  
TTCCAGAGGTTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATAT  
GAGCTAAACCAGTTAACTGTTAAACCAAGGCACATGGTCAATGCCTTAGTA  
TTTTTTTTTTTAAATTCTTCTAACGGTATTTCTAGCTGTACATTCCCAA  
GGAATGGGTGGAAGCAAATCGATTCTGGAAGGGTCAATGGTCTTCCAGGT  
TAGGGAGAACCCAGTCCAAGGGCCGGGGACCTTTTTTCTTGAAGTGCTG  
AAACCCGAGTTTTTC

## &gt;Sequence 109

GAAAAGATGTGGAGCTCCACGCGTCCGAGACACTTCTCTGACTAACCAT  
AGACTATGTGGAATGGTAGCTGGATTGCCTTTGGGTGGAGTCCTTGCC  
CTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTTGAGATTAAT  
GAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACG  
AACGCGTGGCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTTCAGCT  
GGCCACAGAGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTT  
TATAGGTTTAAAGACCAGGTCTGTGTTTTGATAACTGAACTTGCTAATAG  
CTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTGTTTGTGTTTAAATAAAGA  
GATTCAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCCCCAGTTGGG  
AGTGCCTGCTTGTTTTCTTCTGCCTGGGCATGCTGATGTGCAGGCCAC  
ACTCACAGACTTACACGTCTGAGGAGATAGCCC

## &gt;Sequence 110

TGTTTGACGCCGTAATACACTCCTCTGTTTTTACAGTGCTGCCTGCACT  
GTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAGATTA  
TAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTTAGGCAT  
GGAACAAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCA  
TTTAAACAAATTTGATTGTTTCTTTGCTATTAAGAACTCGGTGCTCTTT  
CTCCCACTCTATTATATTGTCAAAATACATCTGGAGACACTATATAAACT  
TTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGCAT  
ATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTTGGTAATTTAATAAA  
TATCTTCTTTTACAAATCATATAATTTTTGTTGTTGATTTTTTAGAGAC  
AGGAGTCTTGCTATGTTGCCCACTAGTTTGGAAATGCCTGGCTTTAAAG  
GGAATCTTTACCTTAGCTTTTTGAGTAGCCGGCCTACA

## &gt;Sequence 111

GTTTGAGGGCGACACGCGTCGCGGGATTGGACCGACGCAGCCATGGTAG  
GTCCAGATCCCGTAGAAGGGAGCGGGTCCCATAGGTTACGGCCGATTCC  
TGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC

## &gt;Sequence 112

GTAAGAGGGCGCGTGGCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCC  
ATGAGGTTGGTCTGGGTGAAGAACGCATCGATGGCGGCACGGGCCTGTTT  
CGGCACGTAGACCTTGCCGTCACGCAGACGCTCCAGCAATTCGCGCGATG  
GCAGGTCGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGC  
AAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAG  
GCTTTCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAG  
AGAGCAATTCCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGG  
GCGTTGCTGTGGGCCAGTTCGTCCACCAGCACCAGGTTGGGCTTGGCGGC  
GAGCAGGCCGTCTAGGGCCATTTCTTCAGCATCACACCGCGGTATTTGG  
AGCGACAACCGGGTTTTGTGGCAGGCCGCTTACCAAGGCTTTCGGCTTG  
GCGCGGCCCTGGGTTTTACCAACCCCGG

## &gt;Sequence 113

GGAGATGTGCGCCACGATCGGGCGCGGCCAGCCGACTGGACCCCTTAGCCT  
CGAGGCCTTTGCTGAAGCTCATGTGAGGGGGCGACTGCCCTGACAGGTG  
TTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGGAAGAACGGGA



Table 2

GAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGC  
AAAGTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAG  
GGTCCCGGCGTGTCTGGCTGCAGACCCTGCAGACCCCTATGAAGATGGT  
CCTGCCTGCCTTGCATCGGGCCTCTAGCTAGGGACTGTGGTTGCAGACGT  
ATTTCTGGGACTGAGCCTCTGGTTAGAGGCCAGTGGTGAGGGAAGAGAGA  
CCATCAGAGAAAAGAGTGAGCCTCGGGCTTGTAGCAAAATGGCAGAAAC  
CCGACCCTGCAAGAGGAAAACATTG

>Sequence 114

TGGAGATGTGGATTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAG  
CAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAG  
ACGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCT  
GTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTT  
GTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTT  
GACAAAGAAATTGGCTGCATCCAATAGAATCCCAGGGCCGGTCTGTGGTG  
CTCATGCCTGTAATCCCAACACTTTG

>Sequence 115

TACGTATGACTCACCGCGGGCCGGAATCGTTGTACCAGACCAGGCCCCCA  
GGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAG  
ATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGTTA  
GTTGGTCGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTTTAAC  
TCTATCAGGGTACCT

>Sequence 116

GGTGATGATGAGCTCACCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTG  
TGGACCAGGGGCTCGTCCGTGGCGGCCAGCGAATTGGTGACGACGCTGAT  
CTTCACGTTGCGCCCGCGGATCTCGCGCATCACCTCCAGCCCCGTGGCAC  
CCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACGCGCGCGGCGC  
ATCTGTCGACACGTTGTAGCGCACGCTGTGACATCCAGCAGCGGCAC  
CGCGCCGTACGACGCGGTCTTGCCGATCACGCGGTACGGCGAATCGGCAT  
ACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTC  
TTCGACCATCGGGCTGTAGCCGAGCAGGGTCGTTGGGCGCGGGGGCTTCG  
CGGGGCCGNCGTTGGTGTGCGGGGGCCCGGGCGGCGTTCAAACCGCTT  
TTGCAAATTCTTGCGCGGGCAAGGTTGGTTCGCAACAACGACTGGGGAA  
TCGGGCGCTCTTGAAACAGGGTGGGATC

>Sequence 117

GATGATGAGCTCACCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTC  
AGGACTGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAAC  
GTCAGTTGCTGGCTTTTCTAAATTTGTCTTCTACCTCAGATCTAAACCA  
TTTGATAACATTAGGGCAATATCATGGCAATCGTGGCCCAGTAAATCCAT  
AGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAATTTTT  
CTCATAGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAAACAACAGTAGGGAGCGTGGATTAGAATGTCCTGGGT  
GCGTGAAACAGGCAGACAATCCTGAAACATCTTTTCTGGGGACGTAAGGC  
ATGAAAAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGAC  
AAAAATGGAATGGGCTTCATTCAATTTTTTTTTTAAACACATGCCTTACAG  
GTGAGGTTCTTGAGGGGCTGGAGAAGAACACCAACCCCTTTCAGCT

>Sequence 118

TGTAGATGACTCACCGGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAG  
CAGCGGACGTGAGCGATAATGGCGGATATGGAGGATCTCTTCGGGAGCGA  
CGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGACTCAG  
ATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAA  
AGTGATCAGGATGAAAGAGGTGATTCAAGACAACCAAGTAATAAGGAACT  
GTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTG  
ATAATCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCT  
GACCATGAGGACAATGACCCCTCAAGATGTTAGATCAGCACAGTGGGATC  
AGAAGCCCCTAATGATGATGAAGACGAAGGTATTAGATCGGATGGAGGGA

Table 2

GCCATCATTTCAGAACGGAAGGTTCTGAAAAGCACATTCAGATGATGAAAA  
GGGGGCAGAGAAATAAAA

>Sequence 119

TAAAGCGACCGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACG  
GTCCCTGGCCAGTGAAGGGTCTAATATAAAACACACCGAGGCTGAAATA  
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AACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGT  
GCTGTGCCATTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTC  
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACA  
ACGTAACTTTTGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAA  
GAGGAACCTTATTTTGGCATGGGGAAAATGGCAGTGAGCTGGCATCATGA  
TGAAAATCTGGTGGACAGGTCAGCGGTGGCAGTGACCTGCCCGT

>Sequence 120

AGACTGACCGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATG  
AGACCGGGAGCTTTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTC  
GTTTCAAGAGCTATGGGCATTGTTTCACA

>Sequence 121

TGATTAGATGAGCTCACCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTT  
CCTTGGTGTAAGGCTTTAACAGTTCCACCTTTCAGCTGCCTGGGCATTG  
ATTGCTCACCTACCACTATGACTAGATATGATTCCATGTGCTTTTACTA  
GATTCCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGTAATAGTTACT  
GCTGAAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCCATTCAGTAGTC  
AGCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTTGTTTTAC  
AATTCAGCTATTCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTT  
CTTCTGTAGTTGCTCTCTCTCCCTATATTCTGTTGTATTTTTTTCAAAT  
AATTTACTATCTCAAGTAAATTGTTTTATGTTTTGTTTTATCTAC  
CCTCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTACTTTTCCCAA  
ATCATAAAGTTTTTGGGAATCTGCTGGTTATTA

>Sequence 122

AGGTACACACTGGATCTCCTTACTCATTTTTTAACCCTGACTGGGACACCA  
GAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAGAATGGCTGTG  
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTACATCAC  
TGGCTTTTATTATTAAATTGAATGTTGGCTGGAAACAATTTTAACCCCAA  
ATTGTGACAAACAAAATATATGAAAAGGTCCCTGCCCG

>Sequence 123

GTTGATGCTCACCGGGTGGCGGCCCGCCCGGGCAGGTACGCGGGTGTGCAA  
CTGCAAACCAGTAACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCC  
CCGTATTGCCAGGCCGGTCTCAAACCTCCTGGGCTCAAGCAATCTTCCCG  
CCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGC  
CAGAAAAACGTTTCAAATATTGAAAACCTTACTTTTTTCAATGAGCATT  
TTTGCATCAAGGGGTAAACAGGGACATTAGGCTTTTTTCTCTTAGACTCC  
AAACAGTAAGGTGAGAATTTATCAAGACATTACATAGGAGTAAGGGCACA  
GCCAGGGGTGGTGGGGNNGAAGGACATTTTCCAGCACTAATTAACAGGTT  
TTATGATTCACTAGGTTGGCCCACTACTGTTCTCACCTAATCCCAGGC  
CAGCGTGTGAGGAGGCCAAATGACACTNTCCAGTGCAAGTGCTTGTAGTA  
TGAAGGGGGCAGAGATCACCTAGTGACCA

>Sequence 124

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCC

>Sequence 125

TTAGAGATGAGCTCACCGCGGTGGCGGCCCGCCCGGGCAGGTACAGACTTT  
CATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGAT  
TCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCAT  
TCTTGAGAGGGAGACAGCAACCAAATAAACAATTACAAAAAAGTATGTAA  
CTAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAGAAGTGAAG  
GAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAACATGTAAGC  
TGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAAT

245  
Table 2

AAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAG  
AACATGATCATCTTTCAAGAACTAACCCTTGAGATCAGAGTAGTTTGATT  
ATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGCCAGATCACG  
TAGAGCTCTCTAGCCTTTGGTAGAAAAGG

>Sequence 126

TTATGATGATTGAGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTG  
AAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGA  
CTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGG  
TCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTA  
TTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAA  
TTGCTTGGCANAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGNNGCGT  
GTGATGGANNAGGTTANAATTTTGAATCTACTTCAGTGGGAATTGTATT  
CCGACCCTCGGCCGGTTTTAGACCTAGGGGGGATCCCCCGGGCTTGAGGA  
AATTCGATTATAAGCTTAATGGATCCCCGCCCACTTTAAGGGGGGGGGCC  
CCCCCAATTTTTTTTTTCTTTTAGGGAAGAAAAAACCCCCGCGGGAAA  
AAAGGGAAAAATTTTTTTTCGGGGGAAAAATTTCCCTCCAAAATTTCCA  
AAAAAAAAAAGGGG

>Sequence 127

ATATGGCTCACAGCTCGGCGGGCGGGTACTGAAAGTGAGGTGAAAAACA  
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AATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAAGCTCTCAAC  
CTGTAAAGAATTCTGGGACATGACTGAGAGCAATGAGAACTCCAGGCAG  
AAGGTTAGCAGATATAGTGTAGAGCATACACAGATATACTATAGTTCATA  
ACACTGGTGGCTTAGCTGTAAATCACAAAATAGCACTGGAATTATACTAG  
TGATCATAGCACATAGTCCAAGAAGAAAAAATTTTGATCTTGTTCTTAAA  
CTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGNAT  
GAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCACCAATAT  
TACAATAAAAAATCAAGACACATGAAGGAGCATACCTTTTTCTGAAAGAAA  
TATTGCTTACCTCAGTCTCTATGGNTATTTGATGCAAAACACCCAGCATG  
CAATTTGAATCAATAAGACATGGAAAGGGAGCAAAATGTAACCTCATGCTA  
AAGAAAAAAAAGAGTGAGAAAGAGACAACAAAAGCAGATCCAGAAATGT  
TAAACTTGTGCATTATAAGGGAGGGAGCTTTAAATACAATATTNTAATT  
TAGAACATCTAGTGAATATGTGATCAGATTTATCAAGTAATGGAATTTGA  
ACAGAGACGTAAAATGCTATATTTACAATNCATATTTTATATAAAAAGAG  
TTGTTAAAATAAAATTGTAAAAACAATGTTTCAAAAATAAGATTATGTN  
GATGGCTTACAGTTGAATAAT

>Sequence 128

GTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGG  
CATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC  
GGTACCT

>Sequence 129

GAGACTACCGGGTGGCGGCCGCCGGCAGGTACAGTCAAGGCCGAAAAAC  
CACTGAGCTTTTCCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCCTT  
CAGCTGATGAACTCTTCATATGCCTCCTTTTGGGTGTCAAGTGGAAATGTC  
ACTTCTTTCTAGAAGCTTCTCTGGCTCTCCAGCCTGGCCCAGGGCTCCA  
GCTATGAGCTTCCATAACACCCCTAGTTTCTCTCACATTGCCCTCATAGT  
ATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCC  
AAGAAGGCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACA  
CCCAACCTAATGCCTGGGCCAGAGTAGGTGCTTAATAAAAAATTGTTTGA  
GGCCGGGCGTGGTGGCTCACGGCTAATAATCCAGCACTTTGGGAGGCCAG  
GCAGGTTGGATCACGAGATCAGGAGATTGAGACCATCCTGGTTAACACAG  
TGAACCCCGTCTCTACTAAAA

>Sequence 130

GAGACTACT

>Sequence 131

GACAGTGAGCTCACCGCGGTGGCGGCCGCCGGCAGGTACCTATCTGCAG

Table 2

AACGGTCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCG  
TTAATTTTAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAA  
TTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAAT  
TTGACTGTGCTGCATTTGACTTCACCTTGGTAACAGGAAGCACTTTTAG  
TCTGTAGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACT  
ATTATATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAA  
ACCTGGAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGT  
TGCTGCATCAAAACAGTTCTGATACACACCTAAAGTCACCACTTCCTC  
ATTCTGGTCCCCAATAACCCCTATAAGCCTCTCTCCTTGTAGGTGACCTCT  
GCCCTGTGAAGGGTTGGCTCACCCCAAGATTCCATAAATAAGTTG

>Sequence 132

ATACGACTCCCGCGGTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCG  
TTGGCGGACGGAACCTTGAAGATGTTCTGGGCGGCCAGCACAAATCGCCGC  
CTTGCCGACGATGACATTGTTGGCCTTCAGCCCGTCAATATCGCCCTTGA  
TGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTC  
GCCTTGCCGCTCGCCTCCACGAGGAACAGGGCTGCGGCCGTCGACACATC  
GCTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCTTCTTGTCTGGG  
TGACATCACCGCGCAGCCGCGTGGCGCCGCAATGAACTGGATATTGCTC  
AGGCGTTTTTCGTCCTTGTGCAGGGCAAGTTCCTGGCAAGATCGGCCCG  
CACGCCGTCGAGGAACGCCAGACCGGATACCTTGGCGTCCGCGCGTCCTT  
GACAGAAGTCCGTTGAAGGAGAACGCGCCTTCCTGAGCTTGCCCCGGAAA  
GTTTGCCATCCGGAACCCGGCATTGAG

>Sequence 133

GATATCGAGCTCCCGCGGGGGTGGCGGCCGAGGTACGATAATTCATGCCA  
ATTTCTTTGGGAATACTTGTCTTGATATAATAGGTTACAAAGCAAAAT  
GAGATGATTTTTAAATGCCATGCAGTTATTTTTCTGAATAACATAAAT  
TTTAAACAGAGACCTGAAAAAAACCCCAAAAGTATTAACCTTTAAATACA  
TAAACTCAATAGAAATAATTTAACTGCCTTCTCTTCACAAGAGGCAATCA  
GAAGGCAGGACTATATGTTTTCTGTGTTTCTTTTCCACAGGAGAGATAAT  
ACATTTCTAGAGACCCATAGAAACAATTCCATAGTTTTTAATTTTCTCT  
CTATCTCTAAGGGTGTGTCCAGGTATCTAACAGCAATTATCTTACATTGC  
TGAATCAACAACAATGATATCACTGAAGAAATACAGGGAGACCCAAGCTT  
CCTTGGATTGGCCCCCAAAATTTGGTGTAACATTTTAAAGGAATGGCT  
TAACTCTAAAGAAAGGGAATTTCTTTTTGAAAAATT

>Sequence 134

TAGAGATTGAGCTCCCGCGGTGGCGGCCGCCCAAGTGTTGGGATTACAGG  
CATGAGCCACCACGACCGGCCCTGGGATTCTATTGGATGCAGCCAATTC  
TTGTCAAGATTGGCTCCATGCTGTTATTTAATCAGGTGTTTCTACTGT  
GTAGACAAACCTAACAGCTCTCCATCTTAAAAAAGGAGTGAGGAATTGAG  
CTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGACTT  
GATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGA  
CAGTTGCTTCCCGGTACCT

>Sequence 135

GGAGAGAGGATGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAG  
GGCCCTCCATTACAGGGTCTTCCTGGAAAACCCCTGGAGGAAGCGCTCCT  
GTTGCAGTCGGAGTGAACCCCGTCTTGTTTAAACCACGAGGGGGATT  
CCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACCTCTGCATTTTC  
CCCCAGAAAGGCGAGCATGTTACTTGTCTCTTGGGATCCGAATGACAAA  
CTCCACCAGATGTAAATCACTTTCTAAACAATA

>Sequence 136

GACGTTGAGCTCCCGCGGTGGCGGCCGAGGTACTTAAAAGTATATCAGGG  
CAGTTTTCATGCCAGGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGA  
GTAGAAGTTCACCAGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTG  
TAACAGGATGCAGACCCCGCGTCTGCCCC

>Sequence 137

TGTTTGTGGATTGACACGGGCGGCGGCCGAGGTACTAAATTTAGCAACTT

Table 2

TATTCATGAGGAACACCAGTCCAATGGTGGTGGCTCTTGTCCTTCATGCTT  
ACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAGATTTTCT  
GAGGAGTTTCTTGCTTTGACATTCAAGTGAATAAGAGAAAAATGCTGCTTA  
CTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTTCT  
TGGACTACTTTGCTTTTAATTTCCCCAACACTCCAGTGAATAAGGAAAT  
CTGGGCAGGAAAGATTTTGAACCAACCCCTTTTAAATTTTAACTAGG  
GGAAACGGGAATTTTGGGGGGGGCCCCACCCGGGGGTGCTTTTGGGGGA  
AAAAATTTTTTTTGGACAAAAAATTTTAAATTTTAACTAGG  
CCCTTTTTTTTTTTTAAAAAAACCCCTTTTTTAAATTTTTTTTTTT  
TTTTGGCCCCCCCCGGGCCTCATTAATAAAAAAACAACCCCGTCCCCGT  
TATTATATATTTTTTTTCCCCCCCCC

>Sequence 138

GGTGAGTTGAGCTCACCGNGGTGGCGGCCGAGGTACTCGGGAGGCTGAGA  
CAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
GTGCTACTACACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAA  
AAAAAGAAAAAAATTGACTTTGGAACCTCAGATTACATATCAGTTTGCAT  
ACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTAAAAATTACTG  
ATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAG  
GAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCTATTACAAATA  
AATATTCCACAAATTTGGAAAGTTATTAGAGGAAGAATTTTTTTTCTTG  
TAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTGAATAATTACATGGAG  
GAAAGAAAATAGGAAAATAAGTCACAGAAAAAGAAATCAAAACAAATAG  
GAACTTTGGGGAACAAGTGAGGTAATTTCTGCTCT

>Sequence 139

AGCCCAATTCTTGATTTCTTTCCATCCCAAACTCTTTAACTCTTGACCT  
CTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCTCTTCTC  
TGCAATCTCTTTCCCTCCTTGCTATGCTAAAACTTGGATGGCCTCTGAAG  
ATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAAGGGAAGGTACCT

>Sequence 140

GAAAGTAGGGATTGAGCTCACCGCGGTGGCGGCCGCTGTGAAACAATGCT  
CATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGA  
AAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT

>Sequence 141

TTTTGTGATAGAGCTCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCT  
TTCCATCCCAAACTCTTTAACTCTTGACCTCTGCAATTCAAGTTGTGAA  
CATGAACTTGTCTATCACCAGCCCTTCTCTGCATTCTCTTTCCCCCT  
TGTTATGCTAAAACTTGGATGGCCTCTGAAGATACTGCTCTTCACCCCTC  
TGAAGGGGGCTCCTCAGGGGAAGGTACCT

>Sequence 142

CTGCCGGGCCCATTTGATTTAAAGAATTGGGGCCCCCCCCGGGGAGGA  
GGGGGTTTTGTATTTTGGGGGCTTTTTCCCTTTTCAATTAAAAAAACCG  
GGGGCCCCGGGTTTTGGGGGTTGGGGGGGGGGTTTTTTTTTTCTTAAGGG  
GGGGTTTTTTTTTTCTCTATAAAGGGGGTGGGGCCAAAAAATAAT  
TTTTCTAAACCCCCCTT

>Sequence 143

CCTTTTTCCGTTTTCTCTAAAAAGACCCTTGGGCTCGGGGGATTGGGTG  
GGGGGGGGGGTTTTTTTCTTTTAAAGGGGGGTTACCCGTTTTTCCCCC  
AAATAGGGGGATCCCCCGGAAAAAATTTTTTAAAAAAGCCCCCA

>Sequence 144

GTGTGGCGTTGAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCA  
TTTGAAAGTGACAGGTATTAAATAACGGCATATGAAAGCTTAAAGTCAT  
CAAATACAATCACTGGGTACTTTTCGATTACCCAAACCAGGCACTTTCTTA  
AACTCCCCACTTCTTTACTTCTGCGGTCTCCTTTCTTTATTCCCCCGCG  
TACCTGCCCCG

>Sequence 145

GAACGATGGGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCGAGCTAC

Table 2

CAGGCTGTGGAATGAGACCGTGGAGCTTTTTCTGTGCTAAGATGCCGTTAC  
GGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTTTCACA

>Sequence 146

TGGACGACGGAATTGAGCTCCCCGCGGTGGCGGCCGTTCTGCTTAGCCAG  
TTTATTCTTTATTTTTTACTGGAGTCATTGCCAGTGATGGAAACGGTGT  
TTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAGCATTAGGTGGTAT  
TTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGAAGT  
TATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCT  
TTTTAATTCATTGTTTTTGACCCCTTTGAGAGTTTTAATAGAGAGGAGTC  
TGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAAATTTGGAACCTAAGG  
ACTTGCAGTGGTCCCCAAGTTAACAGTGGATATACTTCTGCATTTTCTC  
TGGTCTTTCTTGCAATTGGGCAAAATGAATGAACGGGACCAGAAGGCCCTC  
ACCCCTTGTTGGCATTTCGAAGTGGACAGGACTGGGACCCGGGATTGGTTA  
AATAACCCGAAAAACGG

>Sequence 147

TGAGGATGAGCTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACCCAAGGTG  
GGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTCTTGTTAGTGT  
TGTTTGAAAATAAACAAAGAAAATGCAACAAAACAAAAACCATGGTCCA  
TTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCTTAAAGGATTG  
GTAGCTATTTCCCATCTACAAATACATGACAATTAATAAGCCCAATTC  
TTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATT  
AATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAACCCCTAACT  
TTACCTCATTTGTTTGGCTATACCAGGTCTCATGACTCTGGACATAACCAC  
CATCCTTNCTCCCAACACCNCGCGTACTCAAAGTAAAACCCGGAGCTTCA  
TGATAACCATGAGGCCCGCAGCTTCTGNCTCAAAGCTTTTCTGGCCTAAC  
TTCCGCTGCTTCTTCTCACTCGGCGTTTAACTGGT

>Sequence 148

GGAGGACTCACGGGTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAA  
AGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAG  
AAAGAGGAGGCGCTGACCTTATCCTACCTTAAGTTGAAGCAGACCAGCAA  
TTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAG  
TGTCTGTTCTGTGCTGAGTTTCAGGGGCCTTCAGCTTGCGGGAAATCCC  
GAAGATGGCCAAAGACAACCTGAACTGTTGCTTCCAGGGCCTGCTGA  
TTCTTGGAATGTGATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAG  
TGCATCTTCATTGTATNTGACCAACACAGGCTCTACCACTGCTTTGAAG  
CCACCGACAACGATGACATCTATGGGGCTGCTTGGATCGGATAATTGGTG  
GGCATCTGGCTCTTCTGCTGGCCGGTCTAGGAATTGTAGCATATGGAATT  
CCACAGGAAATTCTCTGGCGAATTCATCTGAGGTTAT

>Sequence 149

TGCGTGTGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTG  
AGGAGCCCCCTTCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAA  
GTTTTAGCATAACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGAT  
AGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAG  
AGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

>Sequence 150

TTTGTGATTGAGCTCACCGGGTGGCGGCCGCTGTGAAACAATGCTCATA  
GCTCTTGAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAA  
GCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT

>Sequence 151

TGAGCTAGTGAATCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTTGTTTTTGTTTTTTCTGTCCCCTCTGAGCCATGGAA  
GATACTGGAGTTAACAAAAATTTATAAACTAAAGAAAGCAACTTTATAA  
TCTAAAAGAAAGCAACTTCCCTCCTGTCTTTGAATTCTTATTCCTGAA  
AGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTTACAAAGC  
TCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGT  
TTTGTAAGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACC

Table 2

ATTGGCATTACCCAAATTCTGTACACATTGAGCAATGAAATTCAGGAAT  
TGGACAATGACCTCTTGGCATATGAAAGAATTAAGAGAGGGCTAGGGCTT  
GGGCAAGGGATCTAATCGNGAGGGGATGTTGCTTCCGAGGCTTCCCTTC  
CTTCTTCTTTTCTGGCTTTCAGGTAAATGAAGAAA

>Sequence 152

GAGGGTCACCGGGGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGA  
AGAAAACATTGGACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCCAG  
CAGAAATTGCTTGCAGAGTTTGCTTACGACAGAAAGGCTTTATGGAAAC  
TGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCA  
CGGCAGAACACAGGTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGA  
CAGAGTGGCCCCCTCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGC  
CCG

>Sequence 153

CATGGCTCCCGCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGT  
CCTGTTGCCTCCTGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGA  
TGGAGCTCCTCCTGCCTCCATCACGAAAGCACATATCATCTGTCCCTTTG  
GATTTTACTTCCAGGACGCGTGTGCTCCCGAGCGTGTGTTGCCTTATGGT  
GCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAG  
AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATC  
AGCATGACACTACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTG  
CACAAAATTAAGTATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTT  
TGGTCAGATGAAGAAGTAATGGGATCACATATATATGTAAGAAGACAACC  
ATCATTATTTTGTAAAGTGTTTTATTAACCAACTGGTTAACTTGTGAA  
ACACAAATAGAAGTCGTATTATTAAGGTCC

>Sequence 154

TTTTCGCTTGAGCTCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCG  
GCTTTCAGCGCGCGTTTCAGGTTCGTCAATGAGGTTCGTCGGCATCTTCGAG  
ACCGATGGACAGGCGGATCGTGCCCTGGCTGATGCCTGCGCCCGCCAGCG  
CTTCGTGCTCATGCGGAAATGCGTGGTGTGCTGGCCGGGTGGATCACCAGG  
CTGCGGCAATCGCCACG

>Sequence 155

TATAGCGGACTCACCGGGTGGCGGCCCGCCGCGCAGGTTTAAAAAGAACAT  
GTATAAACGCTTAGCAAACCCCTTTTAAATGTTCTGAAGTCAGTCTTTGTA  
AGTGAAATCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCA  
ACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTG  
ATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAATAATTTTA  
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGA  
ATTGAACCAGAACTGGAATAATTTTGGGAAAGTTTATTAACACTACTCTTT  
CTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTG  
TCTATACAATGCCCTGTACCT

>Sequence 156

TTCGAGAGCTCCCACCGGGCTGGCGGTCCGCCGCTCTGGTGCTTGCATCT  
TGGCTTCCTATAGCTTTCTTTTTTACAGAGGCCATGAAATGCAATCCAGC  
TGAAGTATTATCATCTTGTAGCATTTCAAAAGGAACGTCGAAGTCATCCA  
AAGGATGGGAACCAACAATGTTCTTGTGTTCTTGGGTTTCTTAATGATT  
TCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATT  
TGGTTTTCTCCTCAGTTTCTCACATCTTTTTCTTGCAGCTCTTTCTCAG  
CTCTTCTCCTTGCCTTTTTTTACTGTCTTTCTTGTCTTACTTCAGGT  
GGTTCTATTTTGACCTTTAAAGTTGAAGGGTGTCAACATCACCTGTT  
CAAAATAATTAATGTGTTAGTTTCTGTTGCCTTTGTTTAAACGCATTGAG  
GTTTTAAGTTGGATAAGTTGGGTTTTTGCACCTATTTCTGGGGCCAATG  
T

>Sequence 157

GTAGAGGGTCACCGGGGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCC  
CTCCTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTGCG  
CCCTAGAATCCCCGAGTCGCCTCTCCCCGCGTACCT



Table 2

## &gt;Sequence 158

TTTGCGGGCTCCCCCGGTGGCGGCCGACTCGCTGACCAGACCAGGCCCCC  
AGGGCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACA  
GATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGCT  
AGTTGGTCGGATGGGAAAGCCCCATGGGTCCACCAGGATGAGGTGTTAA  
CTCTATCAGGGTACCTTGC

## &gt;Sequence 699

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTTTTCTGATGTCTTTCTAACAAATCTTTGCCTG  
CCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTTAGCTTTAGCT  
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGG  
CAGAGTCCATGTTGCCAAACTGGTCTGGAACCACCACACCCAGCTAATT  
TTTGTGAATTGCGGGTACCAGCACACCGGCGCCGCTCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAAATCTTGTGGGACCCATGATGCC  
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAAACTGTGGGATCCCAGAACTCCTTGTAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

## &gt;Sequence 848

GGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTACAGTGCTGAAAAT  
CTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTTCA  
ATCTAATTGTTTTCTCAATCTTTGTAAACCAGTTTTAAGAGTCACCAGAA  
ATCTGTAGTTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGAGGAC  
CAATATGCTGGACCAATTCGGTAAATAACCATATAAATTATGACTGCTTT  
ATCTGAATGCATGGGACACTTGCTACGATGGCGGGAATTATTACCAGGAG  
TTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACATTGGTGATCAATT  
CAAATCTCTTTCTTTGCAGCCCAGGTTTGGTCAGTCTGGCCAGGAGTGC  
AGATTATGACAAAAAACAAGCTAAAAGACCTGAGCCATTAAGGTTACAG  
TCTCAATACCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATT  
GGAATGATCCCGCGTACCTGCCCCGGCGGCAAGGG

## &gt;Sequence 849

GGTCGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAAT  
AAGGGACCAGAATAGCCTGGAGCCAGGTATTTCTGGCTTTATACATTCCT  
TAGGAAAAAAAACCTTTATAGATGTATTTAAGTAGAATTAAGGTTTACAC  
AAATGATTTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCGTTCTAC  
GGAGATAGGGTCAACACGCAGATATTTATTTAGCAGCATGGTCTGCAGAA  
GTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCCAGCATT  
TTGGGAGGCTGAGGTAGAAAGATTACTTGAGCCCAGGAGTGTGAGACCAG  
CCTGGACAAAATAACAAGACATCATCTCTCAAAAAATAAAAAAATTAGC  
GAGGT

## &gt;Sequence 850

GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT  
TGGAGAAAAAATTTATTCTACTTCTAGAATTTCACTACANAGTGCTT  
ACGTTCTTGGTTTGGTAGATGAAGTGAAATCAAATTTGGATATTTGGAAC  
ATTAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCA  
TAAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTTCTTTTC  
AAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATT  
AATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAA  
TATATATAATGTGAAGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAAAACCTTCGCTTACTAAAGGCTTGCTTTGAGGAGACAATA  
GAGGAAGAAATTAAGAGGT

## &gt;Sequence 851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAACCTC  
ATCTTAAATTAACACGAATTAAGTAAGCATGCAATACAGACACTTGCAGG



Table 2

ATGCCTGGCCTCTGGGAACTGCTCCTGTCTCTGTGTGAATGTAGAAGTGA  
GGCTCAAACCTCTCTCTTAGGAAAATTTTCCCTTCCCACTGCCATCCATT  
TCTGCTGACTCAACAATTTCCACAGAGGAAATGGGAATAGTATCATCAAC  
TAGCAGTCCTCCCATGCCAACAGATTGTTGGGTCCTTATCTAAGTGTTTCT  
GCAGCCGGTCTTCCCTTCTGACTTCCCGTATTGGCTCGTTAAATGATT  
AGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAGTTAATCT  
TCTAACTGTGTTTTGTGAAAGGAAATATTCCCTAAAAGCTTTGGTGTCAC  
TTAAAAAAAACAACATATATGATTGAAAGAAATTTGAGATATTTTTGT  
TTCAACAAAAACCACTGAGTTTATGTCTAAGAAGAAAATTCAATAAGCAT  
TTATCAAGTGCTTAGGATATGCTGCAATGTATGTACCTCGGGCGCGACCA  
CGCTAAGGG

>Sequence 852

GGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCT  
TGCTTCATGTCCCTCCCTCTGCCTGCCTCAACCTACACAGTCCTGTCT  
GGTGACGTGCCAAAGTCCTTCCCTGCCTTGACAGAGAGGCCTCTCTCGTCG  
AACATGGGCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTG  
GAAGGTTCTGCATCAGTGTGGCATTGTTGCGATAGCCCTCAGTTGATGCT  
TGTTTGTGGTGTGGGAGGCAGGAACTACTTTAGGAGGGTGGAGGGGTGA  
GAATGAGAGAGGACTTGCCCTGAGCCACCCAGCTGTGGTCACCTGATGGC  
CCGGATGGCTACATAAATCCTGGGAGATCCGTTGTCTCTATAACCAGAGT  
GAGCTGGGCTCCAGACCAGCCCTATGGGAAGATCCTGTCTGTGGGAAGCC  
TTTGCCACGTGTTTGCTGAAAGGTGTGGGGAAGGCAAGGTCAACTACG  
TTTCTTTTTGTCAAACCTCCGAGACCCCTTGACCTTTGCCTGTTACCAAGT  
GAAAGGGGCCATAGCCAGAACCCTTTTAATATCACCTGGCTTCCTGCTT  
TCCAAAAGACTGTAAATTAATAGTGCTGAGGAAGGCCAAATGACGGGGG  
TGGTTTGACCTTGCCCTGCTTTCTGGCTTGGGGAAGAATAATGGCAGGGA  
CCCTTTTAGGGGTTGCAATGGCTCGCTGGAGGGGACCCACCCGTTGG

>Sequence 853

CCCTTAGCGTGGTCCGGGCCGAGGTACGCACATACATACACTAACGCTC  
AGCATAAACTTTCCATTACACTTAGACAATGACTTGTGGAGGAAAAACAA  
GGATAAACAAGAGTCTCAAGAACTTAAGAAAAACATCAGAGTTGATTATT  
TAGCACTTTCTCAGGATTCTAAGGCAATAAGCCTAATTCAAAACGTGAAA  
TTGTTCTCTATTTCCATTAGTCATTAATGAGATAAATGACAAGCTATT  
GCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACCAAGTGT  
GTTCTCTAACAGTTCTAAAAACAGTTTGAT

>Sequence 854

GGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATGAGCTTAGAGTCA  
GATTTCTAGGTTTCCAGATCCAAGCATCACTACTTATTTCTTTAAGAACT  
TGGGCATCTGTAAACCAGGGATAATATCTTCTTCAAAGGGCTTGTGTGAA  
GATTCAACAAGGTAATACATATAAACGTCACAGATCAGTAGACCAGCCAA  
GAGTTAAAGGCCTCCGGTTGATCATTCGAGAGGCGGCAACGCATTACAAA  
GTGGTGGATAAAGGGACCCCGTTGGAGAGGTCTTAAACCTGTTTAAACAGG  
ACACTGGG

>Sequence 855

GGTACCTGGGACTACCCACCACCATGCCCGGCTCATTTTTGTATTTTTAG  
TAGAGACAGGGTTTACCATTGTTGGCCAGGCTAGTCTCAAACCTCCTGACC  
TCAAGTGATCCACCTGCCTTGGCCTTCAAAGTGCTGGGATTATAGGTAT  
GAGCCACCGCACCCAGCCTTCAATTTTTTTTAAATCTGATAGAGCACCA  
TCTACTACATGCTTAATATTATCCATAAAACAGACATGTCTGAGCACAGAA  
GATCATGTTAATGAAAGATTATTGAAAGGT

>Sequence 856

ACAGAAAAAAGCATAATGAATACAACAACCTAGCATCAAACCTCAGTGTATA  
TAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAACCTATTA  
AGCTCTTATTTTCTTACTAAAAACAATTTAAGTTCTTTCAAGGCTATA  
GTTACGCTTTACATAAGAGGCCCTATTACCCACTAATTCTTAAATTTCT  
ACCTACTTAAATTTCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACA

Table 2

TAAGATATGCTTACTTAAATCCTTGCTGGTTCCATGCCTGGCCATACATG  
>Sequence 857

CCCTTGAGCGGCCGCCCGGGCAGGTACCATGAAATAGGACCTTCTACGGT  
TTAAAATAAATGTTTGTCTCTAGCCCTGTAGGTCAATGAATGCCTG  
ACTCCAGTGACAGACCATAATTATCCAAATCTCTCATTTATGAATATGGA  
ATATAAATATGCTAAATTGATTATGTCATGAATAGACTTCTTTTTTGCAT  
AACAATGTTTGGAGTTTCTCACCTTTCTCCTAGCCTTCTTTTTCTTCCTT  
AAATGTAGCCTGGAGGATTCCTATCTATTCCATATAACTAAAAGTAAACG  
TTTATTTAGGAAAGGGACTCAGGAG

>Sequence 858

GGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAGATTGGATTTATA  
CACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCAAC  
AAACATGGACTTGTTACAACATCCAGAGTGAAATCTGAATGTGGTCAAG  
AAAGTTCAGAAACAATAAGAGTGATGCAATGCATACCACAACCTCAGGCCC  
AGTGCAAAAGTCAGGCCCCAGCCCTTCCCATATAAGGGACTTGGTCATTT  
GAAAAATCAAAACCCAAAAGGAACAACCTATAGGGACCTGTAATCAATTAG  
AATATTCT

>Sequence 859

ACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAGCTACATCGAAGGACTTC  
TGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATTCAGCTGG  
CCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGA  
AATGCGTCTTTCCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTT  
GGCTACAGAATTGACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTG  
GGTAATATCCTTATCTTGTGATCTAGTTAGGGTCAAGTAAACGAAATA

>Sequence 860

GGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAAAAGCTGAGATGC  
TATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGTAA  
ATATAGATGAACAATGAAGCATAAAACAAAATTTTAAATATCTTACAGGCTA  
AAATATTTAGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGG  
TAAAAAGAATCAAGAGCATTCTAAGGTCCTTATATTACCTGGAAGGAGAG  
TAAAGATAATGACTATCTTCAGGCTGATAAATTAACAATGTATGCTGCCA  
TTTT

>Sequence 861

CCCTTTGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTT  
GTTTFTAATTATCGGTTTTCACCTGGAGGGGCCAGTTCTCTATATTTCAA  
TCTATTTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGCTTTCAT  
TGATGGAGAGGTAAAAGTGAAATGGCTTTGTTGTATTTATATTATAAAAG  
GCCATTTCCCAAATCTAGAATTTATTACTAAAAATCAAGTTTGCATTGAG  
GGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGTGGGGTTTTT  
ATATTTTCAATGTGATTACTCACC

>Sequence 862

GGTACACATTCCATGCTGGGTCATACCTGAGTGCCAGTGGAATATAATTT  
GGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACAAT  
GCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTT  
CGGTTCTGGTTTCTGTGGT

>Sequence 863

ACTACACCTCACCACTGGGTGTCTCTCAGACGTTACCAAGAGACAGAGT  
AAACCCATGCTTTCTCCTATCCAAACCACTCTCTCCTGTTCCCTGCTTTG  
TCCAAACCCAGTTGCAGGAATTTATGTCCTTAAAGTAAACCATCGTATGAT  
AATTTCCCCTGAAAATGTGCCTATTAATAAAAAAATAGGATATGATGGGAG  
GCAGACATAAACATTCTGGTCAATTTATTGGTGTTATTATTTATTTTCAGT  
TAATAAACTGCCCTTTCGCTATGCTTCACTTTCCACGTGTTTAGGCAGT

>Sequence 864

ACATGCTCTAAAATGTAAGGATTCATTTATGAGAGAGTGAACATACTGCT  
TGTAAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATTGGTCCCT  
ATGTGAAATGAACCTGACATATTTTATAAATTATTTGTGCATGACTATC

Table 2

TTTTGTTGATAGCACTAGGAAGACTTCTAACGTTTAAATACTTTATTGTC  
CCTCAATTACTATTTAAAAGTCCTATAATTTTAAGTAATTNTACAGCTGA  
CAAAGATAAATATTTTTTCTTTTAGTTTTCTAATGTCTTGGAGGTAAA  
GTGGAAATGGCCTGTTTTGACACATAATTTCTAGAACTTGGAGTTAATTT  
GATCAGTTACATTTGGGTTTTTTTAGATTACAGTTCTTGGGGTAGATAA  
CACTTCTTGCTGCTTTAAGTACCCTCGGACGCGACCACGCATAAGGGCGA  
ATATCCACACACATGGAGGACGGTACATA

>Sequence 865

GGTACATGTTACTGGGTATTAAATGCGTTCATAGTAGGGTATTAAATCAG  
CAAGGTCCCCATCCCAGAAAAATGTGCAGTTTGTTCATGGGAAAGATGC  
AGAGACAGTTTCAGTTAATATACTAAGTGCTAAGATTGGGATGTGCACAA  
GAAGCTGGAGGTAAAAATTCTGGAAAACTGAACGTGAAGTCACCACTAGG  
CAAGCTGCCTGTAATTGAGCTTGCTTGTATATGACCAATCAACCTTTGCT  
TGTTGAAGGATTAGTTATCTAGTTTCCTCCTTTTCTTTTTTGGAATTTGG  
TCTTTTAAGGTCTTGATAATCTTTCTAGTTTAGAGCATGTGAACAGAACA  
GAAGGAAAACTCAGGACTCAGTTTACTTAATTTAAGCAAGCATTGGTTGCT  
GCAGATTAGGGGAGGTTAAAGTTGCTGGGCTCCACTCTTTTATTAGCATG  
GATGCTTAAAGAACTTCAGGGTTTGGAGGTTAGATTGAACAGCCTGTTTT  
TGGACCTGCCCGGGCGGGCGGCTTCAAAGGGGCAAATACAGCACCCTGGG  
CGGCATACTAATGGATCCAGGCTTGGTACCAGA

>Sequence 866

CATTTCCCCTTATATGTTTCGTTTTTTAGGTACTATGGTATGCCCTAACTA  
AAAAATAGATATAGGATAGTGATACTTTGATGAGGACTATGAAAAGGGAC  
AGTACGGCTTAGTGGA AAAAGTTTTAAGTTTTCTACTGTTATTGAATAAA  
ATTACATATAGTGTGATTCTTATTACTTGAAATTAGGAGGAGAAAGAATT  
TTTTGAGGTAAATTTGAAAAGACATAAAATAGACTACCCTGACAAAAATC  
TTCACAGATTAAAAATACTAATATTTGCATTGTCATGTATATTACAAACA  
GTATTTCTTGCTTTTTGCTTTTTGTATTGTGTTAAGTGTTTCTTGCTAT  
ATTAAATATACTTCTTTATGCAGCCTAGACTTATTTTGTATGTATTCCC  
TGACCTTGATGTCATAGATAAGAAAGCCATACTCTAAGAAAACTAAGTAT  
CTGCTCGGGTGGATTGTTTGAAAGGGCGAAATTCAGCACATTGGCGGAC  
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ATAATATCATGAATTTTCGTGTAAAAATTGTAATATCGATTATCAATATT  
CACAAGAAATAATGAGTCAGGGAATCATATAAGTGATAATGTCTGGCTAT  
GCTTTAAGAAGTAGGCCAACTCATATATTAATATGGGACAGATGAATAT  
AAGACCTATTTTCTAATATCATGATATATATTACTTTAGTACAATTATTT  
ATATATGTAATTAGACAACTCTTCGTGTGTGAGAGAGTTTGTTCCTCGTA  
TATCTGGAGTACTATTCACAATTCACGATATTCATATGCA

>Sequence 867

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ATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAGCTGCATCA  
TGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATT  
AACTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAAATAT  
TTTTAAGTGACAAATCTTTGTAGAAATTTTGA AAATAGAAATATTTGA  
AGTAGAAAGTTAAAAATCACCCACAATTCTGCTTTTGTAAACATTTGAATA  
TGTGTCTTCCATGATATATAACAAAATTTGTCTGGGTATTGCATATGTC  
GTCCTTTCTTCTTAATATTGCATTTTGAGCATTTAACCAGAACTAAA  
TATTCTCCCTAGAACATATGGATTTTGAATAATTTAACTAATTATAAAAA  
TAACTTCCCTAATGGTCTTTTGGGCTCTTTAAAGGTTTGCTGGTATATGT  
TCAGGGTATGAACACTTAAGGCTCTTGACCACATACTGCCATACTGCCAT  
ACTGGCATACTGCTTTTAAAAAATAATTAAGCTGAGTGGATGGCTCACG  
CCTGTAATCCCAGCACTCTGGGAGGCCAAGTCAGGTGGGTCAATTTGAGGC  
CCGGAGTTTGAGAACAGCCTGGTGGACCTGGGTGAAACCTTTTCGTTACT  
AGAATAACAAAAGGTTAGCCAGGTGTAGCAGCATGTACCTTGGGCGGGGA  
CCTCTAAGGGG

>Sequence 868

Table 2

CCTTTTCAGCGGTCTTTTGGCAGGTA CTTCCTTCTTTTTTGGTAATTTTGC  
GGGATGTTGTATACTCTCTACCATGGGGATGAAGACACAAGAATTATGAT  
AGTTCATTGAAAAAGGTTGAGAATTCAGAACTTGTCAGTTTCCACCAATA  
ATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGA  
ATGAAGAATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATG  
TTTATTGATTGGAGATCCTTTATCTGGATTATATAGGGAACACTTTGCTT  
TAGGAGAACCACCTATGATCTAGGAAAACGGCTTTTAAATGTACCTCGGA  
CGAGACCACGCTATAGG

>Sequence 869

TGTACATTAAATTAAGCATACTAAAGAAAAAAGGAATGTTTTCTTAGCAA  
TTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGTGA  
CAAAAATTAGCCACAAGATGAAATTCAGTTAAAATTCCAAACACTGTGGA  
GATGGAAAGCCTTGATTTTATGATGAAAGGATTTATGGCTGGAATTA  
GAAATTAAGGAGCAGAAAAGTGGGTGAATGGAAAACATTTACTTTTGT  
TTTAAGTGTTAATAGCCACTTTTTGTCCAGTCTGTATCTCCTTTCATTAG  
TCTTTATATATATATATACACACACACACGATGTTATATATACAT  
ATAATGGTTTTATGTATTATATATATGGTATATATACACTTATATGTTATATA  
TATGGGTTTTTTTTTTCAGGAGCATTATATCATGGGAATGAGTTCAAAAGTAC  
CCGGCCCCGGCCGTCGTTTCGAAAAGGCCAATTTCCACACACTGGCGGGCGG  
TACTAGGTGATCCGACCTCGGACCCAACCTGGGGGAATCATGGGCATAAC  
TTGTTTCTGGGGGAAATGGTTTCCGTTTACAATTTCCACACACTATAC  
AACCCGGAAGCCTTAAAGTGGTAAAGAGCCGGGGGGGGGGCCCCAAAATG  
AAGGGGGAGCCCTTAAACTCTCCCAATTTTAAATTTTGGCCGTTTTTC  
CCGGCCTCTTAAAAATTGTGGGCCCCCCCCGTTTTTTTTTTTTTCTCAAC  
AAAGAGTTG

>Sequence 870

CCCTTGGCCGCCCCGGGCAGGTAATAATTCTTCAACAGAATGCAATAAA  
ATACGAGCTACATAAATCCAAACTTGTTCAAAGGTAGCTATGTTTTTTT  
AAAAAAGTTATTATAACAGACAAAGCANATGCAAACTTATCCTTCCAAAC  
CCTGATAATTGGTAATACCAAATAACTGGTATCTAATAAATATACAAATC  
AAGAGAAATACCTTGCTAGCTAAATTAAAAAAAAAAAAAAAAAAACTATCCA  
TACTTAACAACCAAGTGCAACTNTGTAACCAAAGTGTTCTTAGCTCCCG  
CGTACC

>Sequence 871

CCCTTAGCGTGGTCGCGGCCTATGTACAAGGGCTTCTTTGGTGATAGTTT  
CTACTCTCTTTAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATT  
GACACAATAAATCTCTTTGATATTTATACTTATGCCTACTTTTAACTTT  
TAGGAAAACCTTTATGAATTGGAATATTCTAAAATCCTGAAATAATTTGGA  
ATATTCTAAAATTCTGAAGAGAATATGAACGGATTGTTGGAATGGAACCTT  
TTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG  
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCA  
TATTTAGTTTCTGGTTATTCATGGTTGCACTCACTTTAGAGGATGTGTTT  
CTATTAGGTTGCTGCTACTATNTGTCTCTCCTAAATAACAGTATGGAATT  
ATAGAAAGAAAGGTTGGGAGAATAGTCGTGTGATTCTTCTGGTCAACATA  
AAGCCTTGTTTCATCCAGCCACTGACTATTTTGNCTTTCTTTTGCCTTGA  
AGCCAAGATGACTTTTTTCACTTCTCGATGTTTTTATGGTCTATACCTCT  
CTCTTGCTCCATATTATTTGCAAGTGGTGCGCAGATTATTTGATTCCA  
TTAAAAATGAACCTGGGTTTTTAACCATTACCCTGGAAAATTCAAGAAGT  
TTGGGCCCTTTGTCCCCCCCCGGGGGGGGGGGCTCCCCGTTTTTTTTTT  
GAAAAAAAAGGGGGGGGGGCGCCCAAAAAAAAT

>Sequence 872

ACAGTTCTGTGTTTTTCAATTGATACATACTACTTATGTAAGAAAAATGA  
GTAAAAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGCACAGAGA  
AGGAAAAACTTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATC  
TACAGGAACAGAAACATGATGGAAGAACAGGGTTAGTTACTGCAACGAA  
AAAACATGGCAGGAAAAAAAACCATTTTGAAGCCAAGCTTTTGATTAAAC

Table 2

CATGAATGAAAACAAATGGGAAAACAACAACAACAAAAACAAAACAAA  
CAAAAAACAAGAATGACCAAATACAGAAATTATTAATGTTTTACACATCT  
TGTACC

>Sequence 873

CCCTTAGCGTGGTCGCGTTCGAGGTACTTGTTAAAATTCAGATTCCTGGA  
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAAATGTCCC  
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCCTGAACTGGGCCGAGCTCAATCACTTCCAGACCCTGCCCCAC  
CTCGCTGGAGCTCAGTGGGCCCATGGTGGGCAAAGGAACCCAGGTTGGGC  
CACAAAACCCTATGCATTTATAAGTAGATGGGGGCTGAATTACAACACAC  
AAGCACTTAAGGGACTTTCTGAATATCTGGACTCATAGGATGGCGAGCAC  
AGCAAGAGTGCAGATTGAACTTACTCTTAGTAACAGATTGTGACTCGGAG  
AGACCCTGGGTGCGGATGGTTCTGAGTAATGGCAATACTCTTATTTGATA  
TAAAGAGGCACCTGGAACTCCTTACAAAACATGTCTCTTTGTAAGACAG  
GTGATATGAGACTAATTCTATTACTGGGCCTCTCCAAACATTTCAAAAAG  
AAACAAGGGTCAAACCTTGCATACCTCCCTTTCATATGTGACCGGTAATA  
GGGCTTATAAGGAGGGCATGCCATTTACTGAGTATTCGACGTCTTAACGG  
TATACAAATTACATCTACGCCT

>Sequence 874

CCCTTTGCGTGGTCGCTTTTCGAGGTACTGAGGATGACTAGATGACAAAT  
AATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTT  
TAAAGAGGTTAGTCTATTCTCTTATTTGAGAGATATGGAACTATCTAGG  
CCTAAAGACTGTAAATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAG  
AAATAGAAAGCAGTTACTCAACAACCAACAGTTAATTTAAGAAACATTT  
GACAAGCATCTCCTGTGGATAAGACCCTATGCAAGATGTCATGAATATAA  
ATATGCACAGTAGT

>Sequence 875

CCCTTAGCGTGGTCGCGTCCGAGGTACTTTAAAAATAACAGAGTGTGATT  
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GAAGTCAGGACTTAGATAGAAAGATTACAAAGAAAGTCAAAGTAAGCAGA  
GAAAAAAGATACCAAAATGACAGCTTCAGAATAAGCAGTAAGGGAATAAA  
GAAAACAAAGTTGTGTGTGTGTGCATGTATTACATGATAAATCCATGGAA  
AAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTTCT  
GTGTCCAAAATACTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAAC  
AGTCCTTCCCACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAA  
TTAAGAGTAGAGAAGGGCACAGGGCCCACTGTCAAAACAAACAGGCAATT  
CTGGGTTCCAAGTTTCATATAATTTTCTTGAGCCTGAAAGTCGTGAAAAC  
TGCTTGTTCTAACATGGACCACTCTAGCACTGTAATGGGATAACCCATTA  
ACCTGGATTCTGGCCACAAGCCTTGCCCTTGTGGCAAGGTACCTGCCCGG  
GCGGGCGCTTAAAGGGGAATATCAT

>Sequence 876

CCCTTAGCGTGGTCGCTGTGACGTACTTGCTAAAATTCAGATTCCTGGA  
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAAATGTCCC  
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCCTGAACTGGGCCGAGCTCAATCACTTCCAGACCCTGCCCCAC  
CTCGCTGGAGCTCAGCGGTCCCATGGTGGGCAAAGGAGCCAAGTTTGGGC  
AACAAATCCCTATGCATTTAGAAGTAGATGGGGCTGCATTACAACACACA  
AGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATCACA  
GCAAGAGGGCAGATGAAGCAGACTTAGAGAAACAGATGAGACACAGAGAG  
ACCCTGGTTCTGGTTTGTCTGAAACATGGCCAATCTCCTATTTAGATT  
AGAGAGGTACCTGAAACATTCTTACAAAAAAATTTCTTTTTGATATGA  
CGCTTAATTTGAGGCCTAATTTCTAATACTGTGCAATCTCAAAGCTATT

Table 2

AAGGAAAATAAAAAGGCGCAAAAATGTCTAATACTGCCATTGGATTGGTGC  
AAGGATTAAGGGCTTTCAGGGGAGGAAGGGCCTTTACCTGGAAAAGTTG  
GCCTGGAAGGCTGTGACAATTACTTGTCTCCCTTCT

>Sequence 877

GGTACTTTTTTTTTTAATTTTTTTTTTTTTTTAATAGAGATGGGGTCT  
TACTATGTTTCCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCT  
CACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCAGACCACTGTGCCC  
TTACTTCTATTCTTACTTGACAAAGGAGAGGAAAAAAAAAAGGAAGTTTAG  
AGAAATTAAGTAGTAACTTGTCCAAGTTTACCCACAACCACTAAGTGGTA  
AAGCTGGGGTTTGAACCTTCAGCAATGTGCTTAAATCTCAGTAACTGAAAA  
TACACTATGGAGGACCTTTAGGTTTTCTTAAATTCAGAAGGTCTTTTTCC  
ATGT

>Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATAATTCCTTAAAA  
TATTTATGCTCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTT  
CCTCTTCTTTACGCCTAATTTCTTAAACTCCCAGAGTTTTTTTCTGTAAG  
ATCTAGTCATCTGTAGCACTTCTCACAATAAAGCTCTCTTATGCCCCAA  
ACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAGTGAAAGATATT  
TCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTAG  
GCTGAGAAATGATTCTCACTTAAAAGCCCTGGGTTTTAAACCTCTCTTA  
GAAAAACATTAGTTAGATGAAAAANANAAAAAAAAAAAAAAAAANGGTACC

>Sequence 879

GGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCAGGGTTCACAGGAT  
GAGGGCACTTTGCCATTCTTTTGATATTGGTCAACAAATGACACAGGT  
TATTTACAATCTTGACCTTTTGAAAAAGATACAGCAGGTAATAGCCTACA  
GGAAAGAGGAGGTAGAAAAACAAGTGCCACAGTAGAAACACTTTGATAGCT  
AAGATGTCTGTCTCTCTTTGTGGNTATTCTGTGCAGTTGTCTGCCTGGGT  
TCTTGAAAAAGTCCAATCTAAAGGTGCTTGATTGCGCCCAAGGATGTCTG  
CATTCACTGGAACCTTACAAGCCCTCTTGCTTCAATCAACTCCTCA  
ATCAGTTTTCCAACTCTTATTCTTACTAGACTGCGAAAAAATATTCTTC  
TTTTTACCGCAATGGAAAAAGGGCCTTGGGGGATCAACCTGGGGATGTGT  
GAATTATTAACCTATATTTTTATATAAGTGGACCTGCCCGGGCCGGCCT  
TAAAGGGCCA

>Sequence 880

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GACATGCTAAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATG  
AGCCCATCTAAAAAGGCAAAATACTGTATGATTTCACTTAACTGTGATATC  
CAGAGTAAACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGTAAGATAAAAAAGTTC  
TGGATATTGGTTGCACAGCAATATGAATATACTTAACTACTGAAGTGC  
ACACTTAAAGATGGTTAAGATGGTAAATTTTGTTAGGTGTTTCTTACCAC  
ATTTTACAAAAAAATTTTAATTAAGGAATTACAAAATGTACAAAATACT  
ATTCATCATTGTGTTTCCAGTTTATATTCAACACAGCAGTATTTTCAAGTA  
TAGTAATTAACCTTACTATCATTTGAAAAGATGTCTATAGCTTAGTAAATA  
TCCAACCTCTTATTCATACATTTTGTGATTATCTAAGAGAAACCAAGCCCC  
CAATGGAATGGAGTTCTCACTACTTCACCTGCCAGCCTTCAAAAAAAGCC  
TGTATTTCACTACCTATTAAATGGGTACCTGCCCGGGCCCGCGTTCAA  
AGGG

>Sequence 881

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CAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAAT  
TAAAAACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTTATTCTTCTG  
CTTGTGTTTTCAATCTTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACAC  
GTATTTGGTTTGGTTATCTGAAGTTAATTGCATTCAATTGTGTTTATAGT  
ATTTATCCCTGTAGTGTGGAATTACCAGTCACCTACATTCAATTTTAG

Table 2

TTTTTGCCTTATCTCCTGAAAGTGTGGGGGACTTTGAATGGGTGTGTAA  
TAAAAAAGCTTCGTTCTAGAAAGTAATAGTTTCTCCATGTCTTAAATATT  
TTAAATGACACTGACATGTTTTTAAAAATCGGGATTGTTGGCTGGGCACC  
GTGGCCACGCCTGTAATCCTAGCACTTTGGGAGGTGGAGGCGGGCCGAA  
CACAAGGTCAAGAGAACGAGAACCATCTTGCCACACGGGTGAAACCCTAT  
CTTTGCTTGTGAAGGAAGAAGATGATACATGATGAAGGGTCCCTTGGCCG  
GGACCACGCTAAGGGGGGATTCCGGACCATGGCCGGCGTTTCAAGGGGAA  
CCAGCCTCGG

>Sequence 882

ACTTTTTCTTGAATATTTCCAGGGCACAAGATATTCTTATACAGAAACCT  
CAGAATGGAAAATAGCTAAGACATAAGCAGTGTTCACAGAACCATCCAT  
CAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCAT  
TATCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTAC  
CATTACTAAGACAGGGTGTAGTAAGCATAGAATTTGGGATGTCTTTTT  
TTCCCTTGCCCTAAACCTTCAGAGTTCTGCCAGGTGATTCAAATGTTAAG  
ATCCCATAATCTCGCCTGTGTGCTCAAGCGAACAATAACACTTTAAAAAG  
TGGGAATGAAAAATCTGAACTGTTGAATTAGACACAGTATTTGGGCCCCA  
TCTTCAATTTCAGAAAGAACAAGTGGAGATATCAAGGCCATTGCGGCCTT  
CTGTAGTCATACTGAAGAATGATGTACCTTCGGGCGGGAACA

>Sequence 883

CCCTTAGCGGCCCGCCGGGCAGGTACTCAAAAATTTAAATAGCCATCTAA  
AAACATCTCAGGTAAAAAATCTGTCCCCTGCATTTGAAACCAAAATTATT  
TTTTCTCACTAAACACATTTTATTTAATAGTGAGGTGAAATTACATTAG  
CCCTCTTCACATTTATTTGATTCAAACCTTTTTTAAAAAACTTAGATTCT  
TTTAAAAAAATAAATTAAGAAAAATGACATCATTTCATCAGATAGCCAGC  
TACATGTGTAGTTTGATCATTGAGTTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACC

>Sequence 884

GGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTAGAGAGCATAGGA  
GCTATACTAAGATATAGAGTCCCTGCCACAAATACACACAAAAATAACATGA  
ATACAAAGTGTCCTAAAGTTCATGCCAAATAAAACAGAGCATATAACTGG  
GCAGAGGGATGGAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTC  
TTATGGGATATGAACTTGAGATGTTGAAGTAGAACTGAGACATTTCTGGA  
AAACTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGAAAAA  
CAGCAAGCAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAA  
CAGTCAGTGATAACACTAAAAAAATCAAAAATTTTAAAAGTCTGGAATCA  
CAGCATAAAGAACCCGTATGCAGGATTTTTATCTCGCAGCCCTGTCTCCC  
TCAGGAGACAGAGATCCAGAATCACTTTCCAGAATGGTTTAGGGTCACCT  
TCCAGATTCTTTGTTACCAACCTTGACCACACCATTTTAAGATTTCCAA  
TGGACCTGACCGGGCGGGCGATCGAAAGGCCGA

>Sequence 885

GGTACAATAAACAAGACAGTGCCTGCTTGTGACCAGGGGCTGGGCCTCTT  
CATAGCTCTTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTACA  
CATTCACTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTTAAT  
TGGTTTGTTTACTTCAAAGTCCCACTCATCAGAGGCAGGGTTTCGCTTAT  
ATTTGGCTCAACTACTTTCTCTTGCTTGGTTTAGTAACACTAATGTTTAC  
TAACATTAAAAATGAAACCAGTTTTTGACGCTAGCATCTATTGACAAATATA  
ATTATTTATTTCAAACGTATATTCCAAATTTAAACATATTCAATGCTTA  
TTGAACATTCTAACATAATAGCTTATGATAAAGGAAAATATAACATCTGG  
TTTTGGATCTGAAGCACAACCACTGCTAGATATTTTGGGAAGGCTTTTAA  
TTCCAATTCAAGGTGAATCTCCGAGGGTGTGGTGGCCTTCCCATTAACAG  
CAAAAACCTGTCCAATTTGGGATTGGTAGAAATAAACCGGATGACCATTA  
CCTTCTTTTTATCCCCAAATGGATTTTATGCCTACCTAATGGCTTTCTT  
GGATATGATGGTTGGCAATAGCCTGCTTCTAATCTATTTTGGATAGAAAA  
GGGAACTTTAATATTGAGATTAGGGGGCTTGATTTTGACTTCCTTTAACA  
CCGAATGCGAT



Table 2

## &gt;Sequence 886

GGTACATATGGCTCGGCCAAAGGGGGACTGGATTAATAAATTCTGGTAATA  
TAGTAAGGACAAAATAAATGTAAAAAAGATAGAAGTAAATGTGAGAACAT  
CAACATGAACGCGTGCTCCTTTGAGTAGAAAGTAATTTTTCTGCTTTGTC  
ACTCAAATAGCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTC  
TAAAACTTTCTGGGCCTCAGATTTGGATGCTAATATGATTTTCCACTTA  
GTGGATAAGAGCTCCCTGGAGAAGGGCTCATTCTTGGATGGACAACAGAA  
TTAGAGCCTGAGTCTAGAGCTAATAAAACAAAGACAAAGAAGGGATCACG  
CAGAAAGCTTGGTAAAGACTGTCTGGCCAATCTGATTACAGTCAGTTGG  
TACCCGCCCTGGCGGCCGCTCGAAGGGG

## &gt;Sequence 887

ACCGATGAAAGTTTAAATCTAATCAACAGTATTATGCACTGGTTGAAGAA  
AACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAAGAAAGGAAAA  
GTCCGGTAACTATATGTGTTTATTAGATTCTAAGCTGTTAAGGGAGAAAG  
ACCCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATNGTCT  
GTTATAGAAAAGTGGTCTTTTCAAGTTTGTAAAGATGAACTATTTTCATCT  
TTTGTAGTTGAATGCTCATGGGGATTAGCTACCTCCATTTGTTTTAATGG  
AAACCTTTTTTAACCACAACCCATTTAGTTGCTTGACTCATATGAAGAAA  
AGGTGCCCTTGGTGGGAAAAGTGGAAAATTCCTAATTATGGAAAATGAT  
TATCCCTTTATGATAATTAATATTTTATGTTTCATGCTTCATCTCTTAC  
AGTTATAAGAGTAATTTTACCTGTATTTATAATTTATTCCTAATGCGTA  
TTCTTAGATTTTTATAATCATTTTATTTCTAGAACTATTTATGTAATGA  
TCTAGATAGTACTATTTTCTGACCTGATATTCAATTCTGTTATGAATTC  
TTATAGGTCATTAGTTAATTAGTTGAATCATTGCTTCTTCTTTTTCTATT  
TATATAAATCGGTCGTATTGTTCTACTTATANAGTTGTTGAACGCATCCC  
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TAACGTATAATAATATTTTTACCCTGATTATCCATTGTCATGTTTCGTACT  
TTCAGTATTCTTTATCATATTATTGAATATTTG

## &gt;Sequence 888

CCCTTTAGCGTGTGCGGCCGAGGTACCATTAACCGTCTTTTAAAAAATT  
ATTATTAGTTTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCN  
ATGTTGTCTTCTTAATTACAAGTCTGCAGTTGCCAGCTCTAGTTTCTTAA  
AAGCGGACCATAGTATCTATGACTTCTGACTACCACATTCATGCTGAGATT  
TCCTGCTCCACTTTATATACTTTGACATAAAATATGTTTTACCGTAGCAA  
AATGTTTTTTAATCACTTTTTCTTTTATTAGATACTTTTAAATTTTCTGC  
CTCGAGTTTATTTTATGTTTCATCTTCTTTTATAAAAAATTGTCAATTCTC  
CTTTCTAACTTTTTTACTTTTAAATTAATATATATACGATTCTTCTGC  
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CCTACGTACTTACTCTTCTTCTCATCTTTTTTATTTATTAATACTAATA  
TCGATATATTTTCGTCGTTTATGGCTTTTATTTATCTCTTTTTATCAATT  
AATATAATTTTCAATTTTCTTTTATCTTCTCATCTTTTCTCGGCTTATTT  
CTCTTTATCTATAATAATGTATTAATTTTGTATAAATCTTTCTGTTATGT  
ATCACTTATTCTTTCTTCTCATCTTCTCATGTTAAATATTCAATTAGAT  
TATATTTAACTTTTCTTCAAATATGGCACTTACTCCTTCTCTTACTCT  
TTTACTAATACCATTTAAAAAATATAATCATAGTTCATGTTTATCTAAGT  
CCTGCCTATTTATCTTTTACTATATTAATGCTGTAAATTTATACGTATGT  
TGATT

## &gt;Sequence 889

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TTATATGATACAAATGGAAAGTGCTATGAAAATGTGGAACAAAAGAGAAT  
AATCTGTCTGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTA  
AAGGTTGAACAAGGAATTGGAAAACAGCTGGCATGTGCAAAAGACTTGAA  
GACTGAAGGAGTTAGCCTTTAAAAAATGAAGAAAGTTCTATTTGGCCAG  
AGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAAGACCTGAGGCCT  
TTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAAGCTTGAGAGTGA



Table 2

CAAGATCAGATTTGCAATGCCTTTCAAGAGGTAGTTACAAGGAGTTGGGT  
CTCTGACCTTTTGAATTATACCCATTCTAACTAAGAATGGGGAACTTT  
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CCTTGCCTGGGGGTCGTTGCAAAGG

>Sequence 890

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TCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACG  
ATCTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCCA  
CCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGA  
CGACACATTTTTCATCATTAATCCAGTCTATTGTAACCAGGGGCCACTCAC  
ATTGATTCCGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCG  
CTAAAAATGAGGGCCTGAACTAATCAAATATATTTAGAGCCTTCCCTGG  
CAACTTGCTGGGAGAGCAGCAGTAGACAGCTAATAGGGGAGCCCCAGACA  
GGTAGCGCGGAGCTCACCATGCTTTGGATGGGAATGTGAGAAATCCATTT  
TGGAAGCCTGGTGTGGAATTCCAGCTATTATACATTGTAGTACCTTCGCC  
GCGACCACGCTTAGGGGC

>Sequence 891

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GGTTGCTCACCTGTTGACTGGAACAAACAATAGTCCCTTCTTCATGCGGG  
CATGGTGAGGGTTTTAACCCCGCATTGTCCACAAAGACCGCTTAAATTAT  
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GTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTCAAATCCCAGCAGG  
GCCACTTACTGTTGGAGCCGGGGCAAGTCAGTTATTCTTCCCTGAGGGTC  
AGTTTTCTCATCCCTAAAATTCCAATAATAACTCATCTTTCAATGAT  
GCCGGGAGGTCTTAAAAATAATATAAGTTTCAGAATGATAAAACAGGCTGG  
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T

>Sequence 892

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CTGGAATGACAGTTGCCAGGGCAGTTCTTCTGAATTTGCAGGTCAGAATT  
AGTGGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTA  
CAAGATGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTC  
TTCCAACATCAGGGAACATCAGGGAAATCAGCTAGTATATGCTCTTTTG  
AGGATTTTCAGCTCCAAATCCTGAAAGCATTGAAACTACATAAAATTA  
CTTTTGTTAAGCAAATCATATAAGTAAATCCAGTCATATGAATCTGGAA  
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AGAGAAGGATGTTTGGCCAGTTGTCTTTTTTACCTATATCTGAAATCT  
CACTTAGTCAAGAACAACATTTAGACATTTAATTTCTTTTGGGGTTN  
TAAGTGATACATGTTTAAAATTGTATATTTAGAAAAAATTGTTTTTATTA  
TATATAATTTATAAATCAGTGGAGAGACAATTTATACTGAGAAAATATTT  
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TGAAGGGAGGAG

>Sequence 893

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CGTTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGAT  
ATTAAGATTACTGAGTCAATTGATATTCAACAGGGGTGCAAAATGGAGAAA  
AAGTCTTTTCAACAAATAGTGGTGGGACAAATGGATAGCCACATGCAAAA

Table 2

GAACATATATATAAGAGCTAAAACCATAATGCTTTTAGAAGAAAATATAG  
GGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGACATGACAC  
CAAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATGATTAATATGGT  
GGAACAGGAAGTCTTCAGCTTGCATCCTCCGCCTTCTTGACACAAACAAC  
AATCTGGCAGCCATCCATGGACAAAAGTGCCTCTGTGGGAGCTCTAGGAT  
CCAGGTAAGAAGGTATGAAACCCTGGTAAAGCCCAAGACGGAGGAGAGGT  
ACCTCGGCCGCGACACGCTAGGGGC

>Sequence 894

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TCCAGGGATACGTCCATCCCCGTCCTGCTGGAGCCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTCTGGACACCATGACGAGAGCTT  
GGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG  
ACCAGTTTATTAAATGGGATTTCTGCCACAAACCTTGGAAGAATCACATC  
ATCT

>Sequence 895

GGTACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGG  
TCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGGTG  
TCCAGGGATACGTCCATCCCCGTCCTGCTGGAGCCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTCTGGACACCATGACGAGAGCTT  
GGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG  
ACCAGTTTATTAAATGGGATTTCTGCCACAAACCTTGGAAGAATCACATC  
ATCT

>Sequence 896

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GCCATTCGTGCTAGAAACAGCCAAAGCCAGACAACCAAATTACAGATGCT  
TAAATGTTAATGCCAGACACCAAGGCTCCGTGAACCTCCCTGTTGAACAT  
CTGACCCCGACTACTTGAGGACATGAAACCTAACTGTGCAGCTAATTACA  
CCTTCCAAGGGCAATGACATCGGGTCCTATGATTTTATTCAGGAAAGCAA  
TAAGGCAATCGGGTCACTGTGAACATCATTTGAAGGGAAGTAACTTCTT  
AGCTTTATTCCACAAATGGTCTATC

>Sequence 897

GGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAACCTAGATCTACATTA  
CTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAACTGAAC  
GATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTCTGAATGAC  
AAAACGGAGAGATAACTTACAACCTAGGTGATATCTGAAGTTAAATTTCT  
TGGTTATCTATTTCAAAAATTCACAACCTATTCTGCACTAAAATGTTTAC  
TGGGTCAAGGCACAGTGGCTCATGCCTGTAATCCCAACACGTTGGCAACCT  
GAGGCAAGAGGA

>Sequence 898

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GGTTTTTAAAACTTTCTNGGACCATTGACTTTGAAACCCGCGCCAAAGAAG  
GGCTGNGGGCTTGGTGGATTGTAGCGCCAACTTAAAAATTGGTTGTCAA  
AAAAAAATTACGGGTTACGTCCCTTTCCAAGGTGGAAAAAGCCGGACTTT  
TTTTTTTTTTTTTCCACAAAAAGAACCCTTTTTTTTTTTTAAAGGGGGG  
GAAAAAAGAAGTATAAAGGAAAATTTTGGGGGGATTCTTCCGGGCCCCG  
C

>Sequence 899

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GGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTGTCCGCTG  
GTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGG  
TTCAGAGTTGAAAGTGAAATAAAGGATAATAATCTTTGTCTTATTTTCTT  
TGTTTTAATGTTTCCCAACTTACGTAGGACAATGTCAACAAAGACAGAT  
GTCCCTAATAGTAATTGCAGGACATGTGTTTTCTATTCTATCA

>Sequence 900

CCCTTTGAGCGGCCGCGCGGGCAGGTACATTGGAGGGGGCCATATCCAGG

Table 2

ACCTGTGATGTGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGA  
TATCAAGTGGGGGACATGTGTTTGGCCTGGGGCTCTATTGGCCTGGAATT  
TTGTGGTAGGAGGAAGGCACAAAAGTAGACTGGGATTACAGGCGTGTGC  
CACCGCGCCCGGCCTAAAGTGTGTTTTATAATAAAACCTCAATCTGAAAC  
ATTTTAATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTTAT  
GTTTATATGAATAAAAAAAGAAAAAGACGAGG

>Sequence 901

GGTACCTATGAGATGCATTTGAAAACCTTACCTTGTTTATATGTTTCTTCT  
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GCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTACAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTT  
TGTGTTGCGTAATATTTTCAGGAACCTTGCAACCCTGATAACTTGTGCCTGC  
CTGTCTGTAGGCCTTTAATGATGTTTTATTGAATTTTGGT

>Sequence 902

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CTTCTAAACACAAATTAACCATTTTCAGTATTTAATTGCTCCTAAAAGGTG  
TATTCTACTTCATTAAATGTAAGAGAAAAGGTTACCTACATTACGCAGTT  
TAAGAAACAGGATAAACTNTAGCATATAAACAGTCTGATTACATTTTCAC  
ACTTTCAACCATCTTATTTATACTCTACATTAGATAATCTTTAAATTCOA  
TCATAAGGTTTCCCATGTAACTCCATATAAAATTTTGTAATCCTGCCCA  
CCCCATGTCAACTCAGTGTATACN

>Sequence 903

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AGCTGAATAAACTCATCCACTCCGATTTTCATTTTCAGGTATCTCATGAGAA  
ACTAGAGGACAAAAACAATTCCAAAATTAACAAAACAAAGTTTACTCTAG  
CCATCAGTGCCAATGAACATAAATGACTGCCTGAGAGTTATATTAACAAA  
ATAATTAATTACAGACGAATTAAGGAATTAACCAGCTATGGGAAATATAC  
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>Sequence 904

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TAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAT  
TGTAATTCAGAAATGGCTTTTATGTATCTAAAACAATCTGGGCTGCTATAA  
AAATTCAGTCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGTC  
TAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCT

>Sequence 905

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TAAATCATGAAAAAAGTAAGAATACTTTATTATTCAAGTAACTTAAAA  
TTGTAATTCAAAATTGGCTTTTATGGTATCTAAAACAATCTGGGCTGCTAT  
AAAAATTCACTCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAG  
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GAGCTTATTACAGTTTTG

>Sequence 906

GGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGACTGATATCAGAG  
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GGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCA  
AAAGCAAACCTAGGTCAACTTTTTAACTGGCTAGTGAAAATGAGATTCTC  
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AGAACAGGATTTATTTAGGGCATGCAATGTGGAGGGCCCTAATGGGAACA  
TGACAGTGT

>Sequence 907

GGTACAAATTGCATTGTCAATTTATTTGTTTCCCCACTAAAGCCTCCA  
AACCTTGCTTGTTTTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCTGT  
TGAAGTTCTTTTGAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCT

Table 2

TCGGGATAATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTG  
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ACTGTTAAG

>Sequence 908

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GCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTT  
TGTGTTGCGTAATATTTAGGAACTTGCAACCCTGATAACTTGTGCCTGC  
CTGTCTGTAGGCCCTTAATGATGTTTTATTGAATTTTGGTT

>Sequence 909

ACCTCTTCTCAATTTTGCTATGAACTTAAACTGCTCTTAAAAAATAT  
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GGATAATGAAAGAATGCTATGGATAACTTCATGCTAAAAACTNCAACAAC  
TTAGAAGTATGAAATGAATGAACTTCTCCAAAAAATACAAGTTACCAAA  
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AACGTGAATTTGTCAAAAGCTTCCCCAAAATAAAATTCCAGGACCAGATG  
GT

>Sequence 910

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AAGTCATTCATCACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTG  
CTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGTTTGTGTCTTTTTCTT  
TAAAAAAATTCCTTTGTGGTGGTTTTAGGGGAGTTTTTGGGAATATATAT  
TTAATGTACCTCTGGCGAGACCGCGCTTTAGGCGATATCCTGCACACTG

>Sequence 911

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CTATGTAATTTTCTTATGGTGAACCTACCAAAGCAAGGCCTCACCTTAGG  
CTACCAGCTTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTT  
TGTGAGAAACCTCATGAGCACTGAGTGTCTAGTTCAGATGAAAACCGG  
TTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATC  
TTT

>Sequence 912

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AAATAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAGTATCT  
TGTAATTCTACCTGGTGAAGTTTGATATAGCACACATATGACTTTTCT  
ATATTATTTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGTTTGTATTTT  
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>Sequence 913

ACCACAAAGTTATTGCCTACATCCAGGTCAAGAAGATCTTCTACTGTATT  
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GTTGTGCAATCATTAACCTAGCTTTAGACTGGTATACTAATTGGTTTGT  
ATACGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCA  
CAGCAGGGCTCTGTAATTAGGCAATAATTACTTACCATCATACCTAGTGA  
GGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCCTA  
CT

>Sequence 914

AAAACCTTAGCGNGGNCGCGGCCGAGGGACTNGAGGACCAAGCCACAGAG  
CAAGCGCTAAAAAAAAGNNACTAGAACCTNACCACTGNNNCACGCACC  
CCAATTTTCATAAAATGTATCAGTAAAAAAAACAATTATCTAAAGTTTTT  
TAAAGTAAAGAAAAATTATTTATCACATAGGTAACCTTGGTGTCAACTAGG  
TAACTGATCTATTTTAATTTAGGAAGTTAGTGTCTTCCTTCTCAATTTT

Table 2

CAGATTTTCTGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCTCTACAAGGA  
GAAAGCAAGCCAGAGAATCTGA

>Sequence 915

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ATTGTGGGTATATAGTAGTAAGATGTTTGACATAAATTACATAAAATAAT  
TGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTTGATATTATATAT  
GAAGTGGTATATTATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACA  
TATTGTAAACCTACAATAATCATTACAAAATAAAGAGATATAACAGTAA  
GG

>Sequence 916

GGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCATTCCCTTGGTCTA  
TAATTCAGTAAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGGCC  
CCTTAAGCGACCCAGGGTAGCTTGATGGTTCAGATTATGATTTGTTCT  
AGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGTCCCTT  
CCCTTTAAACAAAAAGTGCCGGCTGGACGCAGTGGCTCATGCTGGTA  
ATCCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGG

>Sequence 917

ACTGCCTGGCATGCATCTTCTCGATGGTCTGTTATCTTGTGGGAATGACA  
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TCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATC  
AACGATGACTGCAGTGGGTGAGGCTGTTTGTGTTATCACATCACTTGAGAA  
CAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAG  
ACATCTGTTTCAAGCTTTCTAAGCCATGGAGTATTCTAAATGAGCA

>Sequence 918

GGTACTACAATTATAAAGTTACCAATAACTTTACATTAAGAAAAATCATTT  
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ATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATAC  
TGAAACAGTGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTGG  
GGAACAGCTTTCAGCAGTGGTCACTTGCTTTTTTTAATGCATTTCAAAA  
TGTGTTTGGTTAGCAAAAATAATGAGATAATTCCCTCAAATAAATGG

>Sequence 919

GGTACAACAATTTATCCATTCCCTTTAGCAATAGTTGGACACTTAGAATGT  
AAAACCTGTTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAAGGGC  
GTTGGAAGAGGAGGAAAAGAGGGGTGAGATGATACATTAATATAAATTACT  
GAAAGGTGGTGTTCACATTTAGAATTTTTTTTTTAAGTTGCATGTTTAGG  
ATTTTAGTGCTCAGGAGGAAAGAAGGCCAGTGTGCCCCTTCCAGACCATC  
GCTGCCATTTCCCTGTAATATATCGTGTGTAGAGGAACCTAATGCCTGCA  
G

>Sequence 920

GGTACTGCTATTTCTAGTTCAAAATCACAGATTTTCAGATTGAAAAAATT  
TCAATCCACTTATTTTTCAAATGAGATAACTGGGACAAAGAGAAATTCCA  
TGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACC  
ACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAAAACAAACAAGCA  
CACAAACAAAAAAGATTTCTAATAAAGTGAATAATTTTAAGAAAGGCAA  
GTATCACTATTTTACAAGGAAAAAATTAATCATTTTAACAGATTGGC

>Sequence 921

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CACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCTCA  
ACATTTGTGTGCTCATCTCCCCTTACCCAGAGACTCCCCAGGGCTGCTG  
GGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGAAAA  
TTTCCAAAAGGTGTTAATAGACACATAAAGATTTTTAAATATTAATAAAAA  
AGAAAAAGAAAGAA

>Sequence 922

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264  
Table 2

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CATAATGAGAATTGGAGATGTAAAAGAAGGCTGAGTTCTAGGAGTTGCAA  
CAACTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAA  
TGCAGGCGAGGACTAGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCA  
GGAGAAATGTGACTGAGGACAGTATGCCACTGAAAAGTATGATGAAAGAGGA  
GGGAGACAGGAGGA

>Sequence 923

GGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCACCTCAATTCTACT  
CTGGGGGACATTCTCTCTCTTTTTGGTCTGGAATGTCCCCTGGCTTCA  
GGGACAGCTCAACATGGGCCTGGACAGTCAAATTCATCCCCAAGCTTGG  
GACTCAGGGAGACCATCCAGTGACTGTTCTGAAGTGCTGGGAAGGCAGA  
GCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTTGGAGCTACT  
GNGCTCTCCAAGCCGGTGCCAGGACCAGCTGCCTGAGAACGAAGCCAG  
CA

>Sequence 924

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAG  
TGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTTTCAGGTC  
CGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACGAT  
CTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACC  
AATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACG  
ACACATTTTTCATCATTAAATCCAGCCTATTGTAACCAGGGGCCACTCACAT  
TGATT

>Sequence 925

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CTGGAAGTGTCCCTGACGGAGAAGTTTTACAAAATGAACTTCGAACTGAA  
GTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCCAG  
AAAAAGACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAA  
CTGGTAATAGTAATCACTATCATCATCATGTGACATCCAGAAAGCCACAA  
ACAGAGCGGTCTTACCAGTGACTTGTCATTGGTTCCAATTCTTAGCT

>Sequence 926

GGTACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAAGCTTAATA  
AATGAAATAATTTATTTCAATTTATTGTTGCTTGGAATACAGAAAGTGCTT  
AGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCAC  
TTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTT  
TGGGGCTGTTACAGTTATTTCCCTTTATTTGAAGAAGGAATATGATATACC  
TACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

>Sequence 927

GGTACCTGTGAAGACAGCTACACCTGGTTTCTCCCTCATGCCTTGATCC  
CCAGAACTGCTACCTTACACCGCTGGAGCACTCCCAAGCTGTGAATGTC  
ATCTCAACAACCTCAGCCAGAGTGTCATTTCTGTGAGAGAACAAAGATT  
TGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTC  
ATCTTCTGCTATATACTCCAAATATGCAAATGGAATTGAAATTCAACTTA  
AAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTTCAGGTCACCCAA  
TTTCGAAT

>Sequence 928

GGTACAAGAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTT  
CACAAGAAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAG  
CCACATTGCAAAACAAACAAAAAACGAGAACGTTCCCGAGTGTGCCT  
CCAAAACATAAAGGAGAAAAATCATACAGAAAAACCTCATGTAAGGGTTGG  
AATTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTA  
GGGCATGGCCTGAGAGAAGCCCCCTTCTGCTTTCAGAGCCTACAAGTAGT  
CCCCAG

>Sequence 929

GGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTT  
CTAATGAGTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATATGT  
TCTGTGTGTAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAAAT

Table 2

AAGAATAAGAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCA  
TAAATGTATAGTGCTTAAGCTCTGCTTTAAAAGGTCTTTCATGTGCTCT  
TGGGTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTG  
CAATCACAAT

>Sequence 930

GGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGC  
CCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTC  
ACTGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCA  
GGGATAGTGGCTTGGGCCCTTCGTCTGGCTTTTCTCCCCACACTTGCTTC  
CTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAATGGTTAACCC  
AGAAGGGAGGGCAGAAAACAATGGCCCCACATCCTGGCTCTGCCTCTGAC  
AAGCTGAGT

>Sequence 931

ACGCGGGATTTAGAGACAGGGTCTGGCTCTTTTGGCCAGGCTGGAGTGCA  
GTGGAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGCTCAAGAGAT  
CCTCCACCTCAGTCTCCCTAATAGGTAGAATAACAGGTGCACACCACCA  
CGCCTGGCTAATTTAAAAATTTTTTTTATAGAGACAAGGTCTCACTATGT  
TGCCACACTGGTAAAGTATTTTTAAATTCGAGACATGAATAATGATGCA  
AATCATCCTTTCTATGGGTCTGATTCTGTTCTGCTACCTTATTCAAGGAC  
TAAA

>Sequence 932

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATTTTATAGTAGACA  
CGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCTGA  
TCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGT  
ATCTGGCCAGAGAAATTTTTTAATATAAATTTTTTCAGTTACCACTTAAA  
GGGAAATATGATTAAAAAACTAAATAAAGAAGAGCTTTAGTAAAACCAT  
GCCCTCTTGCTAATCTATTAAGAGTCAAATCTGAAC

>Sequence 933

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAAC  
ACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGG  
GAGGGACAGAAGGAAATAGGATGGAAAGGGTTGAGGGACTTCAACTGTA  
TTTGTGATGTTTTAGTTCTTTAAACAAAAATCTAAATGACATTTGAAAT  
ATGAAACAAACGCAGAAAACATCAAAATGTCAACAATACTTAAACCTGAG  
TGTTGGGTGCCTGAATGTTATATTGGTCTCTGCAN

>Sequence 934

ACCCAGTATATGAGCAATTGCTCAGCAGTGTGTTGGATATAGGGAGTGGAT  
AGCTATTATTAATTGCAGATTATTTTGAAGGAAAAACACACAGAGAATT  
ATGTATCTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTTAC  
AAAGCTGCAGTTATAGAACACAATTCTGATTTCTGCCTCACCCACCGGT  
TAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTTATTAATAAT  
AGCTGTTATTTTAATAGCTATACTAAAAACATAAAAAATGTTTAGGCCAGG  
CGTG

>Sequence 935

GGTACCTAATTCATAAGATAAGGATTAAATGAATTAATAATATATAAATCC  
CTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAA  
ATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATATGTT  
TCGTAGTGATTATTCATACCCCTACTGGACTCTAAGGTCTGTGAGGATA  
TGCTATTTGGTTTACCACTGTATCCTCAACAACTGCTGGTTGTCCCTAT  
TGTAGGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTA

>Sequence 936

GGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGA  
AACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACA  
GGAGGTTGTGGGAACATATAGACAGTGACCAAACCTTTAATGAATACAGG  
AAGATTTTCTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTT  
ACCAGGTTCCAGAACTTAAGTGATAATAATCTTTTATCATAAAATTTTAA  
GTGTGGTAGAGAATAAAAGTTTGAATTAATGTTGAATGAAATGTGTTA

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Table 2

TG

&gt;Sequence 937

ACACTAAAAATAGAATATAAGGCAGTGAAATCAAATCCTGGCTCACTTGA  
AGAAATAACAGTCTGTGGGCAACTGGTTGTTTCTCAGGTACCTCAGGGG  
ACAGATGGTCCCTAAGGTGCAAAAGAATGAACTGGTGCTGATATATGACT  
GATAAGTTTCTGTAAACGGGCCACTGACCATTTCATTTCCCAAGGAACATA  
AATTACCTTTTAGCCTGTGTATTTACACACAAATATGCAACCTGCAAACT  
TCTTCTGAGGACAGATGTCAACTACTTTTTCATTTTTTTTTTTACAGTCA  
AAG

&gt;Sequence 938

GGTACCAAGTATACTTCACCAGATATCTATAGAACATTCCACTCAGCAAC  
AGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACATTC  
TCCGGGATAGACCATATGTAAAGTCATAAAACGAGTTTCAATAAATTTAA  
AAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAAT  
TAGAAATCAATAACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAA  
TTAAAAAACACACTCCTTAAACAACCAGTGGGTCAGAAAAGAAATCACAA  
GGGN

&gt;Sequence 939

CCCTTAGCAGCGGCCGGCCGACGGGCTCTTCTTCATACTCTTTTAATT  
GGATATGCCAGTGTGTCTCAGTAATTTCCAGTGGCTGTAAAACCTTTGAGA  
AATTTTGTAGCTTTTAGAAACCATACCTGTATTGCCTGATTGCTTATT  
AAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGC  
AGTTTTTTTCCATGAAAATTTTCAGTGGTGACAAATTATAGAATTTATCAT  
TCAATTCAGTCTTAAGTAGAAATAATTGCATATAATAAAACAGGTTCTTG  
ACTGTTCTTTTT

&gt;Sequence 940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGAGAAGCAAAGAAATGTGC  
CCTAGGTACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTC  
GAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAG  
AGAAGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAAGT  
ATGAAAAAGCAAAGATTTTTGTTTTTCGTGGTTTTTTTACTATAAAGGAA  
AACTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;Sequence 941

GGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAAT  
TGATATCAAAGGAAGTATCAAAACCTTGATGTGGTTAAGAGCATGGATA  
GTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGC  
AAAGAACTGGAATGTAGAGGATGAACATATTGGTAATAATAACTGGT  
GGAATTGTTATTCAGGAAAAAATAGCAATTATTCCTGTTTCATATCTCAA  
TCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATA  
TAAAAAT

&gt;Sequence 942

GGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTTGATAGTTATTTGTTTTTTATTTTAAAAAT  
TTATTTTGCCAAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTA  
TTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATT  
TGCCGTCTGCTGTGAAATGTCTTAAATTTTTTGCCATTTTTCTAGTGAT  
AAAACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTTATTGTC

&gt;Sequence 943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGT  
CAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACTGATT  
AATGTGTATATACTAGTTCTGTACTAAGGAGGGATGTTAAATTAATCCC  
TAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCAT  
AAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTTGTCTTC  
TTGGTGAACCTAGACCTTTTATCATTAGGAACT

&gt;Sequence 944

GGTACAAAAATCAACTTTCCTTTTTACTATCTGGAAATAGGAAAATGTTC



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Table 2

CATTCACTATGGTGACAAAACCTGTAAAATAGGAATATATTTCTGAGGAAA  
GTATAGGTATTTACAAATAGATAAACTATATTCTTAGATGAGAATACTTA  
ATACCCACTTTACAAAATTA AAAATGAATTACAGCTTTTTAAAAATAGAT  
TAAGCTGGGTGTGATGACATGGCACCTATAGTCACAGCTACTCAGAAGGC  
TGAGGCAGGAGAAGCACCTGAGCCCAGGAGTTTGAGGCTCTAGTGAGCTA  
TG

>Sequence 945

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TCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATG  
AATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCT  
TGCCTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTG  
GCAGTGGCCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGGAGATGGCAT  
CCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGC  
AGGG

>Sequence 946

ACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGAAGCATTGT  
GAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTAT  
TGCAACTGTTTTATGATACAGTTTGCATTGTATGTGTTTACTTTTTAA  
GAAGCATTTCCTGGGAGGTTTCTTTTTCTGTTATGAAAATAATATATGC  
TTATGGGGAAAAATTGAAAATAGAAACCAGTATCTAGAAGAAAAATCAC  
TCATAATCCAGCACCTGTTAATACTTTGTCTTTTCTTACAGTTTCTAA  
TA

>Sequence 947

GGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAG  
AAACAAAAATAGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTG  
AGTAGTAACATTAATAGAAATTCCTTAGGTGGAATTTCTTTAATGCCTTC  
AGTTTCAATTTTAAAAAAGAGTGTATGTAGAAGAGGGAGTGAAG  
GTTTGTAGAGGTAAAGAGGGTGAGATTTGATGGTATTTTTTTAGTTAGG  
ATGAGATAGTAGAGGTAGAGGTTATAGGGAATGTAGGTTGTAGTTTTTA  
TTTN

>Sequence 948

GCGCCTTTTCAGCGGCCCGGGCAGGTAAGTATTTAATGAATATTTTA  
TAAATTGCTGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAA  
TGCTATTGCCAGGCTGACTTTTATTGCAACTGTTTTATGATACAGTTTT  
GCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCCTGGGAGGTTTCTTT  
TTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGAAAATAGA  
AACAAAGTATCTAGAAGAAAAATCACTCATAATCCAGCACCTGTTAATA  
CTTTGTCTTTTCTTACAGTT

>Sequence 949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAAT  
GTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGT  
AGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCA  
AACTGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACCTT  
CTGAAAGTCATTTTTTCTTATCCACTTTGTGCCTTTTTTTAAAAGCTGC  
AGCTTCATGGAATTTAATCCTGGTATTTAAAACACTT

>Sequence 950

ACTTGGTAGGTTGATCTCTTTTCACTCTCATGGTTTAATTACCATCTATTC  
ACTGATTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGG  
TCTGCACCCACATATGCAAATAAATACCAGATATCTCTCTTGGTTATATF  
GCACATATNTCAAACCTCAATANGTTCAAACCTGAATTCATCTTCCCCCT  
AAATGTATTTTTTCTTCCCCCTCTTTTGATAAAAGGGATTACCAAAAACC  
CCACCCGCCAGGTTAAAAACCTGGTTTGAAAAATTTATTGTTTTTTTAC  
CCTTTTTTAAAAGG

>Sequence 951

GGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCAT  
CCTAACTTCTGTGAGATTTTTTTTCAGAATATTTTGGATGGTTCTCTCACT

Table 2

TTTGTATTAAAGCATTGTTGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGC  
CAATCTCATGGCATTGAACAGAGAAGATATGTTTTACGTCTCTAACCAG  
TGTTTTTCATAGTGTAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAACC  
AAGAGGTTAGATACTCCCTTTTCTTTAGTTATATAATGGGCTTCATGTAA  
CTA

>Sequence 952

GGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTA  
TAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTG  
GAACCATCAAATCTGTTAAGACTGAAAAGAATACCAATGTTTAAATATAT  
CTATAAAATGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCA  
ACAAACTTAGGTTGTTCTAACATACATACAAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTTCCCAAAAAGCTGAATTTTT

>Sequence 953

GGTACCACCAATAATTATGCCCACAATTTTATCCTAAATAAGAGTGATTC  
CCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAA  
AACATGACCCCTCCATCCAGAACCAAATAAACTCAGGAGTGATTAGAAT  
CACCTGTGGGCATTTTCCCCCAAACCACTACTCTGTAGATTCTGATA  
AGCGCTCTTAAAGAAGCTACAGCTCTTCCCCATTCCCTATCTGAAAGCAA  
GGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGATTA  
TAAA

>Sequence 954

GGTACCAGATGTTGTAAAATTTACTATAATTAATAGGAATTAATTAATGA  
ATGCCAAGGGGCAGAGCCCACTTCCTATGATAGTTCCCTTGCTATAAGGT  
GCTATTTANNGTTCTCTACATTTACTCCATAGTAAGCTGTTGTTTGAGAA  
AAAAAATGCCAGTTTGGTGCGTAGTAGATACGCAGAGGCTGAGAAAGGAA  
CAGATTACCCATTACCCAATGGTTACAGAATGTATAATGCTTCCCTTTAA  
ACTGGTTGATTTGTTTTTTTACA

>Sequence 955

GGTACCTTTAAGCCAGATTTCATGGTATGAAGGCAGCAGCATAGCACCTCC  
ATTGACCCACATGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCT  
CAGATCCCTCACCTGTAAAGGAGAGTAATACTACCCACTTACCTTTTTG  
GGTTGTTGTGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAG  
GGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCCTGTTGAATTGGA  
TGACAGTGAACCTTGCAGCATTTCTTAACCTCAGAAGTTCAAGAG

>Sequence 956

GGTACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAATGGATGTGTGCA  
GGTGACATAATTTCAAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAA  
ATATTTCTTAAAAAGAAAACTTAGGATTTTTTTTTTACAAAAGTTAACTTA  
AAATGCATTATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGT  
GAATAGTTCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAA  
CAAATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGTT

>Sequence 957

CCCTTAGCGGCCCGCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTT  
TGGGGTGGTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATT  
TTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGTTACT  
AAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTC  
TCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATA  
TACGTTTAGGATTATTTTGTCTTCTTGGTGAACCTAGACCTTTTATCATT  
GGAAACTGTCCATATAACCACT

>Sequence 958

CCCTTTGAGCGGCCCGCCGGGCAGGTACTCCATAATATAATCTTTTAAAT  
GGGCAACTTCTAAATATTGATACAACCATTAATAATAATGCTTATAGGGT  
AAAAGAAAATTTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCCAA  
TTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGT  
TCCCTAAATTCACATCAGTTTGTAAGTCAATGGATTAAATTATTCAA  
TGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATT

Table 2

## &gt;Sequence 959

GGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAGACAGTCTTGCTAT  
TTTAAGTCCAGGCTGGACTCAAACCTCCTGAAGATTGCTCAAGCAATCTTC  
CCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTA  
GGTTCAGCTCTTAAAAGAGTTGTCAGTGTGGTGGGCGAGGTGGGTCACA  
TACACATATAATTATAAGGTAAAAATCACAACCTACTACAAGAAAGGTGC  
AAACATTTATGAGAAAACCAAAGAAGGGAN

## &gt;Sequence 960

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGAT  
TGG

## &gt;Sequence 961

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACACA

## &gt;Sequence 962

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAA  
AATACAGCACCTGGGTGGTTTGGAGAGAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTTAATAACCAATAACAAAATTGAAATAGGT  
CAACTT

## &gt;Sequence 963

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAA  
AATACAGCACCTGGGTGGTTTGGAGAGAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTTAATAACCAATAACAAAATTGAAATAG

## &gt;Sequence 964

ACACTGCATAAAGCCAGAGTTAAAACCTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGC  
TGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCCATGCAAGAT  
AGGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAA  
TTGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTA  
AGCAATCTGAAATGGACTTTAAATAATGATGT

## &gt;Sequence 965

ACACTGCATAAAGCCAGAGTTAAAACCTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAACCTGGTGGAGTTGAGGCAACTGCT  
GAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCCATGCAAGATA  
GGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAAT  
TGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAA  
GCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAGAGGA  
AAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAA

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Table 2

TACTTATGAAAAAACCAATTGGAAATTTTTAGATGGAAAAGCGTGAAATA  
AAAAATTCAACACATGGTCTAAAGAATAAACTGCACACAGCTGAAAGGAA  
AATTAGTTAATTTTACGAAGAAACAATAAATCTCACAGAATGTNAAAGAG  
ATAAGATATTTAAATAAATCAGAGTAAAGAGATATTAACATATATACAT  
TTGAGTATATAAAATCCATATGGTGATATGGATACATATATATACCAGAA  
GGAAGGACAGAAGAGATACAATATTTGGACAGAACATGGCTAATTTTTCA  
GAATTATTAAGAACTTGAGCCCTTGAAACAGGTCCAGGAGTACCTTGGC  
CCGGAACACGCTTAGGGGCGATTCCAGCACACGGCGGGCCGTA

&gt;Sequence 966

ACGCGGGTCAAAAGGATGAAATGTTTTCTGTCAGAATGAAATTCAAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATA  
CATACCAGAATTGGCACACAAAAGGATATTAACAATAACAACACTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGAT

&gt;Sequence 967

ACGCGGGTCAAAAGGATGAAATGTTTTCTGTCAGAATGAAATTCAAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAACCAGAACTGACATA  
CATACCAGAATTGGCACACAAAAGGATATTAACAATAACAACACTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAA  
CTTCTAAAGATGAGAACTGTAGTGTGAGGTGAAAAATATGCTAAATG  
GCATTA

&gt;Sequence 968

ACGCGGGCGGTCTGTGCCCCATCACCATTTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAAT  
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAGCTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTC

&gt;Sequence 969

ACGCGGGCGGTCTGTGCCCCATCACCATTTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAAT  
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAACTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTTTATAGTTCTGCG  
TGTT

&gt;Sequence 970

GGTACCAAGATTATGATAGCCTCTTAAACAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGGTGAAAACAGCCAGTGAAGTCATTGTGGGTTTGGATTTT  
TCTTTGTAGGAATGGTTCCTTAATTTACTAATATAGCTTTTTCCAAAATA  
TGTTAATGAGTAATTATCCAGGGGTTTTTCTATTATCCTTCCCTTGTTG  
ACAAATTTTTTGTCTGGTCTTTTGTACTTATAAAAGATATTGATTCCAT  
GCCTAATAAAGTGTCTAAATTAATTTTATTTGGGATATCTAATTCTTTA  
TTTTTCCAAATATACGAATTCCTATGTATATATTTATTTTTTACCAAAGC  
ACCAAGTGAATACTTTTAAATGGTTCTTTAAAG

&gt;Sequence 971

GGTACCAAGATTATGATAGCCTCTTAAACAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGGTAGAAACAGCCAGTGAAGTCATGTGGGTTTGGATTTTCTT  
TGTAGGAAGGTTCCCTAATTACTAATTAGCTTTTCAAATAGTTATGAGAA

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Table 2

TATTCAGGTTTTCTATTTCTTCCTGTGTCAATTTTGTGTCTTTTTCTAT  
AAATTTGTTTCATCTATAATTTTAATATTTTGGTATAATTTTTTCAAAA  
TAATCTTGATTTATTTACAAGACAGGATCTTAATGTTTAATGACAGGAT  
CTAT

>Sequence 972

GGTACTCCAGCCTGGGGGACAGATTGAGACCCTGGCTCAAAAAATTTTTT  
TGATTATGAGNNGANGAAGGAAAAGAAAAGAAAAGAAAAGAAAAGAAA  
TAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA  
TTTCAAAGCACATTCACAAAGGGTATGTCACCTAAATACCTCAAAATTC  
CCTGTTATACATGCAGATCATTCCCCATTACGCCCTGGTATGGACTGAAC  
TGTGT

>Sequence 973

GGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAAAAA  
AAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAA  
TTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATT  
TCAAAGCACATTCACAAAGTGTATGTCACCTAAATACCTCAAAATTTCCC  
TGTTATACATGCAGATCATTCCCCATTACGCCCTGGTATGGACTGAACTG  
TGT

>Sequence 974

ACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTATACAAACCCTAAACTGT  
CTACACCCAGACTTTATTCTTCTACAACCAATTCCTCAAACACACAATT  
CTGGAACAGTAGCCAGTGAAAAGGGGAGTTTTAAGGGTGGGGGTGGAGGG  
AAGAAGGGATTTAATATTTAATGGTTTATATTAGCTGTGTGATGGATTTA  
TGAATTTTGTTCGTATGTAATCAATGTGTGTGAATATTGTATCTATATTT  
AATCTTATTGTATGTATATAATGTAATGTTCCGTATTTCGTATTTTGATA  
TTAATAAATGATATAAATTAATGGATAAATTCAAACATTGATCCATAGCT  
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>Sequence 975

GGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGGTGGGGGCGACACA  
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TAGCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTT  
TTGGTTCCATATAAATTGTAATAAATTTTCCAGTTCTGTGATAAAA  
TCTCAATCGGTAGTTTGTATATGGAATAACCATTGAAATCTGTTACCTTGC  
CCCGTGGCGGTCCGCTTCAAAGGGCCGAATTTCCAGCTATCACCTGGTC  
GGTCCGTTTACTATATTGGATTCTTA

>Sequence 976

ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAAGCAGGCATCATAAC  
TGGTCCTGTGGGTGATCCAGACCACACTCTGCAACTCTTCTTCTGAGC  
CAAGCTCCCCTACTGTCTTTTCAATTTATGTCAAGCAGGGGAAGAACCCTC  
AAAGGGCTCTTGCATCCAGTCTCACTTCCCAAAGAGGCACGAGGCCCTC  
CAGGATGTGGGGACAGGAACCTTGGGGCAAGCCGGGGCTGTCCAGAAGAT  
CACCAGGAGGGCCATAAATTGTAGAAAGGAGAGTCCTTTATTGGGTGAAAT  
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>Sequence 977

GGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGT  
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ACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGA  
ACAATAATACCAATTCATATGGATCTTCAAATTAGTCTTATAAAATTTTA  
TGATATGGTATTATCCAGCCAACCTGACTTTGAGACTGACAAAAATTCTA  
ACTTTAACCAGGTGATTCTTGCATTCTTTGGTTTAAACCTCAAGTTTAA  
AAATATCTTTATATTACATTTAATTGTCATTAATCA

>Sequence 978

ACGACTTCACAACACCAACCACAGGTCTCAAGGTCAAAAAATGAGCTAGG  
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Table 2

ACTGTGTCCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAA  
ATTTAGAAAGGGTGTGGACCAAGGGATTTTTGGTTAATGTTCTCTAAAGC  
AGGCTGACTGCCAGGATTTCAAGTCAGTGATAAATTTTTAATTTTTATTA  
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>Sequence 979

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AAAGAGCAGTAGACAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTT  
GAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTT  
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>Sequence 980

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AATCAAATCTTACATGATGCATTAAGTGAAGCTATTTTAAATACTACCAT  
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>Sequence 981

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TATAC

>Sequence 982

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TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
CTTGGGGAAAAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTGGATT  
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AGTAAGATTTATTC

>Sequence 983

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TTTTCTTTTTTCTTTTTTAAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCT  
ATGCCCAGATGGTCTGATTCTGAAGGACAAGAGAATTCAGTGGCATAAGC  
CCTGTGCTTGGCATGTAGTAAGTTCTCAGTAAACTTTAGCTGGCGGGATC  
ACTGAC

>Sequence 984

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ACAGGTGTGAGCCACCGCGCTTCGGCCGAGGACACTATTTTTTTGCTTTGG  
AAGAAATGAATCCTAGTTTTGGTTTCAGAACTGTCAACAGCATTGTGCCT  
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>Sequence 985

GGTACTTACTTAATTTTTTTTTTTTTTTTTTTTAGTAGAGATGAGGTTTCACC

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Table 2

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TCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCACCCAGCC  
TGTGTGTGTTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTA  
ATTGACAAATAATTTTATATATGGGGTATAATGTGATGTTTTGATGTATA  
CATTGTTGTATACGTTGTAATTGTATACATTGTGTTGTATACATGGATGT  
ATACATTGAAATTATTGTATCCAGAAAATTAACATATCCATCACCTCAC

>Sequence 986

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TTTTTGGTCCCCTAAAGAGTATTTATCATCTTAGATTACAGCTTAAGTTGT  
GGACAAATATCAAGGGGAAAAGTATTTACAGTTAACGTTGGAATCACACG  
GTTTTCGNGGGTGTGCCTCTTTACCTTCAACTTTGGTGGTTCTAAAGA  
GGGACGATTATTAGTTGCTTCACTAAGGAGGGGAAGTTCATGATGGAGC  
AACT

>Sequence 987

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AAAACAAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTAAATGT  
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CCACTACGGCACGCATCACACGCCAACTACTCACCAGTTCACGTTTTCCG  
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GTTCTACTAGTCTTTGTAGCCACTGCACTCGGAATGGTGTCTAGTACCTG  
CCCGGGCGGGCCG

>Sequence 988

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ATATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGA  
ATATGGAAGATTTGCAAAATATATTGCTAAGATTAAAAAAAAGGAAGGG  
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ATTATATTTAAAACTCATAGGATAAACAAGAAGGTAATGAAATAATTAA  
T

>Sequence 989

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ATAGGTGTGAGCCACCCTGCCAGCCTATGTTTATTTAGATGTTCAAAA  
CAACAAACAAAAATAACACACTAGAAAAAATGATCAGAGAATACGTGTTA  
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>Sequence 990

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GAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTAATAGGAAGCTGTG  
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AGGCATTAGGATTGTTGGAGCCTTGGAGTTTTGAGACCTGCCTGGGCAA  
CACAGGGAGAATCCTGTCTTCTTCAATTAAGTAAATTTATAAATGGAATT  
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CCTTGTA

>Sequence 991

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Table 2

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AATCCTAATCCAAA

>Sequence 992

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TGTTTTGCGACCCG

>Sequence 993

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GTCATTTCTCTTTTAAAGCAAAAAGGAGAAGTAAAGTGGAATTTGGGTTTCA  
AGAGCCATGCTTTTGGCTTTTTTCAAAAGAGAGTTGCTCTTAATAAGGCG  
CCTGGGTGTAGTTTTCCAAACACCTTTATTTTCTACTTGACTGTCCTGGA  
TATGTTGGCCTTTGAAAGTTGGTTTAAATTTTAGTAGAGGAAGAGGTGTTG  
GACTTTGGAGTAGTGTAATGTTTACCCTTTTGGCCCGTTGGAACCACT  
GCCTTATGGGGCCGAATATTTCCAGACCACAACCTGGGTGCGGACTCGT  
TTAACTTAGTTGTGATTCCCTGTGGCATTGGGGTTACCCCAAAGCTTTT  
GGTCCGT

>Sequence 994

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GGCCTTCACTAAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTGAC  
TCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCCT  
GACAATCCGATGTAGGTGGTCTTAGAACATATTTTGAGAAATATATTC  
TGAGTCTGGCAGATAAAGAATTCTTAACAAGGAGGTCTGCCCCGGCGG  
CCGCTCGAAAG

>Sequence 995

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GAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTA  
GAATTATGTGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACA  
GCTAANAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCTCA  
ATAAACATTTAAAGTGGAATAATCTTCTCTAACTCATATCAAGTACCTG  
CCCGGGCGGCC

>Sequence 996

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TTCTCTAAATTTGCGGACCTGATGCTAAGGAATGTGAATATACAGTTAGG  
TTCTGCGAACCCTGTGTTGGTTCAAAAAGGCTGGTGAGGGGAAATTTAT  
GACACTAAATGCTTATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGG  
CTCATGCCTGTAATCCAGCATTTTGGGAGGCCGAGCCAGGTGGATC

>Sequence 997

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TATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCCAAATTTTA  
CCAATCTAATTGTTTTTACTCACACCTGTAGATGTCACTTTAAAAATGTG  
AATATTAATTTCTTCAAACTACTCCAATTTAAGTAATGAGTTAGAGCTT  
TGGCAACCATTAAAGCTCTCTGTTCCCAACTCTAACAATATGTGGTAATG  
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AGAAGTGAAATTACAGGTTGAAGATTATTAATTTAGCCATTCAGAAACCT  
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Table 2

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GTTTAACAATTTTTTCGAGCTTCTTTTAACTCGAAAT

>Sequence 998

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TGAGAACCCTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGCAA  
CCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCA  
CGTGTGACTTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTT  
CTGCTCTGGTATTTTTACTTATATTCTATTAAATAGATATGTGTGTATAA  
ACTTATTGATATAAAAAATGTGGTCATGATCCACTAAAGTGATTTTACAAG  
CCACTAATGGG

>Sequence 999

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTT  
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GTATAAACTGCATTTTGTGAGTTGAATAAGCCCATTGAATGAGTCAA  
ATTTTTTAAAGCCTCGAGATCCAACAAAGCTGGAAAAAAGTAGGGGTGG  
GGGTAAATGGTTCATTTGAGATGTTGGCCTTCAGTACCATGAGAGGGAA  
AGCAGAACAAATGGGN

>Sequence 1000

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TAAATCTATCAAATATCTTTTAAACACGAACCAAAGTTAATCTGAAACT  
CTTCCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTC  
ATTATTTCTGTGGCATTATACTATGCCCTTGTGATATGCTTTTTTCC  
CATAGAGCATTTTTTCCCATAGAACCTTGTATTCCTCCACTTCTACCACC  
TTTCTTTGAAGAACTCTTATTTACCATTCTTGGACTAAATTAGGAAA

>Sequence 1001

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TGTTTTGGTAATATCTGTGATTTTTTTTTTTTTTTTTTGGTATGGAGGTC  
TTACATCTTTTGAAAATTTATTCCTAATACTTTGGATTTTGACATTATC  
ATAAAAGAAAATTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAAC  
ATATCAGTAATTTTTTATATTTTAATCTTGTATCCTATGACTTTGCTAAA  
TTCATATATTAAATAGTTGCTCCATAGATTCCTTAAGATGGCAGACACAG  
CTGTTTG

>Sequence 1002

ACTACTGGCATTAAATTAGATTGTGATCATAAGTCAAAATGTCATTGGTT  
ATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGTTATGTTT  
TAGTTTATTGCAGTGAAAAACAAAATTTAAAGTTATTGTAGAGAATTA  
TCATACCCCCCAAAAAGTGTCATTGGTCCTCCAGGACTCTGTAGTCCCCA  
TCCAAGAAAGACTGTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATG  
GTTGATGGTGCTCTGTGCTATTCTGGTATTAAACAACCTGCCAAATGTCTTG  
ATTACATGTCCTAAAAAAGTGAGGGGAAGAGTGTAGGACAAATGCAAAAT  
AAAAATAACACATTTAGCTATACTTTTATGATTTTTTATTATTGAGATTCA  
ATATTTAAGTGACCGATTCAAGAATCTTTTATATAAAAAATGAATATATG  
CATAAGTAACTGTGATAAGAACTGTGGATGGATAAGAACACTTTTTTGAT  
GTA

>Sequence 1003

CCCTTAGCGTGGTCTCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTT  
ACTGAACCAATTTTCTATACCTTTTTCTTGTATTCTTTTCTTAGCTTTT  
GTTTATATGGTTGCTATATTTTCAAGCCTCATACCAGTCATATAAAACC  
ATGATAAAACTTCATCAAAGCATACTTGGGCAAATTTCAATTATCAAGTA  
AAATTGTAAAGAAAAATTTTTTACTAGTTTGGAAATAGATCTACATGTTT  
GATTTTCTTTCTTCTCCTCCTTTGTTTCTTGTCTTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTCACCAAATTAGTGTTTGTATA  
CCCATAAAAATGTCAC

>Sequence 1004

GGTACTCCTGAACTTAAAAGTTGAACAACAAAAAAGAAGGAAAATGCGT

Table 2

TAATACCTTATTGTAATTATTATTTTTTGGGAAGACTATTTTTTATATTCA  
GAAGAAGTGTGAGAGTCAGCAGAAAGGGATTATTTCTCCATTACCTACA  
ACAATGGTTTTAAATGACTGGATAGATAGAAATCTCTTTCAACTTAACTG  
CTTAGCACATTGCATTTTTCTCTGTTTCAAGTTAGTTTTCCAAAGGATTA  
CTGACTTTTTACCTAATTTGCTAAGGGATGTCAGGCCTTAATGACATATT  
TCTCCTCAAATAAAGATACAACATGCTTTTACTGTGTAGGAG

>Sequence 1005

GGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAGTCCTCATAGCAC  
ATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATAAGGAATATAA  
CACTGACTATTCTGATTTCAGTAGAACATAAAAAATGTCTAACAAAACAGG  
AACCTAGACACATTTATATTATTTTCTACAAGTAAACAGAATATCTATTA  
GATATGTTTCAAGGGTTTTATCAATTTTGAAATCCAAGTGGATAATCCC  
CAAATGCTGTAAGGACTTAGATTTTATAGCCAAAACAATTAACACATAAA  
ATGCTATTACATATTTGG

>Sequence 1006

ACATAGTTCTGCTTGCATTGGTCCCATTTACAATCCTGTCTAAATCCTGAA  
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TGGTCCAACTCCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTT  
AGGAAAGGTTGCATTAATATTCAGTAGTTAAATGTGCGATTCTAAATTT  
TTTGTAAATTTCCCATGAGAGAATAAATTTTTTCAAAAATATTTCCAGTAG  
GTGAATGGCTTTAATACATGGTATCTGTGAAGATGGCAAATAAAATGACT

>Sequence 1007

GCGCACTTAGCGTGGTCGAGGGCGAGGTACATCTAAAAGGTGATGCTAAT  
ACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATAC  
TGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAAAA  
GTGCAAGTTGTTACACTTACATATGATAGTTGAATGGCAAACGTGACCAA  
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TCCACCAACAATAACTGGGCGGTGCTTTTTTTGCTTTATGCCTTTTTGG  
TTGTGCCTTTTTGGGGTTGGTCTGCCCTAATTAATACCGTTCCCGCTGG  
CTTTTTGGGCTTGGGGTCTG

>Sequence 1008

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GTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTAT  
CGAATTCCTGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAG  
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TTATCTCCTTTTATAGTAGTAAAAATATTTTCCTTTTTTTTGAATGGA  
GGTCTTAAGCTCAGTGTCAAAAATAAAATCATTTTA

>Sequence 1009

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AATTACTTAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCC  
ACCAGACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTC  
TCCCACTTCTCTGAGGATTACCTTCCCCTCTCTCAGCATTCTCTGTCA  
GTGGCTTTTTTTTTCTTTGGCATGCAAACATGCTCAAGTCTGTCTTATA  
AAAAATAAAAAAAAAAATTTATTGTACCTCGGCCGGGACCACGCTAAGGG

>Sequence 1010

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TCACCTGGAACCTGTGAGTATGTGGTTTTTGATCTGTGACTAACTGTCA  
CCCATTTCCCAGTTTCTCTGCTCCGTCAAATATCAACATTTTACCAGGTT  
TCTCTGTTGTTGCCAAACCTGTCAATTTTATTTGGTGTGGCTTCTTGGGA  
AACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAACAAGGACAGA  
TGCAACAGAGGTGGCATCAGGAACAAATGGGTGCTAAGAACTTACCTTGG  
CAGCAGCCCCAGAATGGTCAGGAGGAAAGGCACTCTAAGGTATCAGAAG  
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Table 2

TCACAGAAATGAATTAATGGGAGACACAAGGGTACCACTTAATATTCCTG  
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C

>Sequence 1011

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TCAGAGTTATAGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTA  
TTCTGAGCATGTTCCCTGTAATAGGATAGATAGGCGATGTGGCAGCAACAA  
CTCCCAATTCTGAATGTCTTAAAAACAAAAAAGTTTTATTTCCTTTA  
TGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCCATGCATTTAC  
TCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAAAAACAAAGAAACCCAAAGA  
TCATGTATGAGCTATTCAGTCTCCAGCCCAATAGTGGTTCACTTTTTAC  
TGACCAGAACTAGTCTTCCAGCTCCACCAAACTNCACGGAAGTTCAGGA  
GCCCCAGAGGAGAGGAAAAACAACTTGGGCCCCGCTACCTTGCCCGGCGG  
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>Sequence 1012

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GTAACAGTGAGGGCATGATTAGCCATCTTTGCCAGCTGATGTCTTGTTGA  
CACCTGCCTTGTTACCACTCTAACAGGCCCGTGTGAGCAGCTCCGCTTCC  
TCCTGACAAGCTGCGAGCACAGGGGACAGCACAATCTGAAACTCTTACAG  
ATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGGCAAGCATTAATC  
TAAATTTTTTTTAAAGGA

>Sequence 1013

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GAGCCACCGCGCCAGCCTATTTTGTCTTAAATTTTTTGTCTTTCAG  
TCACCACAATTTACCATGCATAAATCACAACGGTTAACAATTTAGCATC  
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GTTGCATTTTGCTGCTTTCCTTAACAGCGTCTAAGTCATCAGCACTCTAT  
TGTGATGATTTATCTTAAAAATATTCCAAGCGATCATTTTTAGTAACTGT  
GTAATATTATATCATAAAGTTAAAACATAATTTGTCATTCAATTGTTGAA  
ATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAAATATGTTTATA  
AAAAGTTATATACAGTTTTTATAAATCTTTGTGCATACTTTATACTGTT  
TCCTTAGCATAGAGACTGTGGAATAGGATTTCTTGAAAAAGGTAAAAGT  
GTGAGTATGCATATATACTGGTACATATATGTTATTATTATAAAGGTAAT  
AATCTTTTTTTTTGGAGATAGAATCTAACTGCACCTCAACCTGTGTAAA  
AGTGAGACCCTGTCTCAACCAACCAGAAAAAAGAACTTCAATTAAAT  
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>Sequence 1014

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ATATTGTTATTTTTAATGTGACCAAGAAATATTTTCATAGAAGCTAATG  
CTGAGTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCCAAAAATTTAT  
TTTCTACTATTTACATATTATCCTAGTGGATATTACATTACTTACTGAAG  
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TCCAGATGTTTTGTTTATTTGTTTCTCGATTACATGTATGAGATTTTCA  
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AGAAGCTAAAATTTGTGAAACCAAGAAATGACAGGACAGTGCCAAATGA  
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>Sequence 1015

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CAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTC  
TCAGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTT  
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Table 2

AAAGAAAATCAGTATCAAAAATTTGGAGTTTGAGGCCAGGCACGGTGGCT  
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TAAAAGTACCTCGGCCGCGACCACGCTA

>Sequence 1016

GGTACTATTATAATAAGTTAACATATTTCCCCTATATGCGGAAAATGCTG  
ACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACACAGTCCTTG  
TCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGC  
AACATTCGTAAAACCAGAAATGATGTGTGACAAGAACTAAAGAAGTGA  
CGAAATTCACCTCCATTCACCCTGGTTAAAGCTTCCTTGAATCAGAGATA  
AGAAACAACATGAAAAATCTATTCCTTTTAGAAAACAAGTCTTTAACCCA  
GAGGTTGGTTTATTTTGAAAAGGAATTAGACTCTGGGCCACATACCGCT  
CGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGTGA  
CTTTTAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATA  
TAACTCAGACATCAATAATTCATTTTATTGGAATAGGAGTAGTAGTATG  
AAATGCTAGCAGACTGTTTCATTTGCAGGGAGGCATTTTCTAATTTAAGC  
CTAGAACAATGCAGTCAGCTTTATTTGGCAAGCTAATATGAATGGAGGCA  
AAGCTGAATCGAAGGAATGGTTTTATGATCTCCTCTAATCACGCTATTC  
TTTAGCATCAGTTATTTAAGTCTGACTTACCCACCTTTTGGGACCTTGGC  
AAAGTGACGAGAAAAGGATTTTATAACTTTGTACCTGCCCCGGCGGGCG  
GTCGAAAGT

>Sequence 1017

GGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGATGGAGACTGGCTA  
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AAGGACTGGTGACAAAGTTTGGACTTTACCTTGACAGACAGTGGGGAGCCA  
TTGAAGATTTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTAATTTA  
AAAAAATTTAAATTAAGGCTAGCAGGATTCAGTTTTCAAAGTGGCCAGCT  
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CAAGCTGTGCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTTCTTTTACCTA  
CTGACCCCCATATGCATTNNTAAAGATTTTTTAATTTTATGGATACATA  
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>Sequence 1018

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CAG

>Sequence 1019

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TAGGG

>Sequence 1020

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Table 2

ACCAGACCTTGGATTTCACCCATAACTTTAAGGCTGGTCATTTTAACCCCT  
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TAGAGTGAAAATGTAAAAACAAAACAAAAAGACAGCATACTGGCTACC  
AGTTTTTCTTAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAAT  
AAAATGTTATTTAACTCAAGGATATTTCTTCACTGAAAGAAAACCTACTT  
CTACATGTAAACCTGCCATATACTTTTTCAATTAAGCAATGGATCAAAAG  
TTCTGAAAATGA

>Sequence 1021

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TTCACAGACCCCTTATGTAAATGCCTCAAGAGTAAGAATCTTGCTCAAGT  
GATTTTTGTATCTCCAATGGCTAACAAGGAGCCTGACATAGAGTAGCTGC  
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GCCGGGACCAACGCTAAGGG

>Sequence 1022

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TCATTTGTTTAAAGACGGAACGCTGCTTCATCTTGTTTCGCTTTTTCTGCAT  
TCTTTGTAAACTTAATATTCTAATTAGCCCCAACACGGAAAAGAATGTAA  
CACAACGTCTTAGTTGTGCCATAGAGTTAGAATCTATCTATTAACATGT  
TTTAGTAATAACAAGAGAAATAATAAAACACACCTATTATGAGACGCTG  
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GGAGAAAGGAATGGAGGTTAGAAGGAAGAAAGAGAANAAGGAGGAGGGGG  
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TTGTACCTTCATAATCCTGCCTTACTAATGCAGAGAGAGAAAAATTTCC  
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CGCCTAATAAAATTAATTGGAAAGCATTGAATTTTTACATAGTAAGGATA  
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>Sequence 1023

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TCCCATTCACATAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATC  
CACTCTTCTATTTGCAGTGGCAATACTTAGGGCTTCTTACTTTTTACCA  
GGACTATTACTAGAGCTTCTAAATGCTTTCTATCTGTAGGCTTACTCTT  
CTGCATTCTATTTTCTTCAAAAACACCAGAGGTAATTGTTCCCAAACCTGC  
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CCATAGTACCTCGGGTCGGGACCAACGCTAAAGGCGAAT

>Sequence 1024

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TGCCATATGTTATGGCTAGGTCAGCTTTCCACAAGTATGCACATGCAAAA  
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TCACTCTTTTGAACATATTTGGTGATGCCAAATTAATATAGGATATTAT  
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GTCTGAACATATACAAGTGATGTGAAAGAAAGAACAGATGGCGACGTACA  
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TGAATTTGGCTTAATAAGGCGTTCATTN

Table 2

## &gt;Sequence 1025

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TCGTTCTTCATCCGCCTGGTTCCGTGCACTATTCCAGGACCTACAGCAGT  
GCCTAGAACACAGAACATCCATTAGCAACATTTGTTAATGAATTTATAG  
TGCCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAG  
GCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAG  
GTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATG  
GCGAAACCTATTCTTTACTAAAAATACAAAAATAACCTAGGGCTGATGGC  
ATGTGCCTATAATCCCAGCTACTAATAGAGGGTGAGGCAGGAGAATCCCT  
TGAATCCC CGTGGCAGAGGTTGGCAGGAGCCACAACACACTACTGCACT  
CCAGCCTGGGCACACAGCAAGACTTCTGG

## &gt;Sequence 1026

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ATTAAGATCATGTTTCTACTTGATTTTAGTTGCTAGTCATTTCTTAATC  
TAAGCACCCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGT  
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GTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTTGTGGT  
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TGAAACCATAATTAAGTACGTTGTTTGTAAAATAACTTTTTTCCATTTA  
TACTTTTAAATGTTTATTACATTACTTTTCTCTATATATTTGCACATAAG  
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## &gt;Sequence 1027

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CCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACG  
ATGTGGCCTTTGTCTTAAGAATGAGGTTTGAAAGCCCCAGTTCTTCCAT  
GTTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAATGC  
TTAAAAAATATTAAACAGCTTTATATCATGAAAGTTTNAACATGTACCTGC  
CCGGGCGGACGCTAGAAAGGG

## &gt;Sequence 1028

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CGCTGGATAGTCGACTGTGTGTCTTTGTTGCCCAAGGCGACAGCTTTGGT  
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ATAGTACCTGCCGAGGTGGCCGCTCGAAGGGCAAATTCAATAACGCTGGC  
GGCCTGTATTATTAGTATTAGGTTATGTACCAATCGTGGCGTTGATGAT  
GGTCATGCTCTGTTGGCTAGGAGAACATTGGATATAGTTAGGAGTGGTCG  
CAAGATTTAGGCGTGGAGCATAGAGAGTAAAGAGTGGAGGGCTGACTGAG  
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## &gt;Sequence 1029

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ACTTGCCAAACCCACCATCAGGTCTGCCTCAGTGTTCTAGTCAGGACAG  
ACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATAAACAGAC  
CACAGGGACTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAAT  
GAAATGGAAATGATAGTGAGTTGGATTGAGAGTGTAGAAGACTTTATTT  
AGAACATAGTGGGGGCCCTTAAGTTGGTTACTTCCAAGGGAGAAGTTGAGA

Table 2

TCTGAGGGTAAATGAATTATTGAACTGCCTATAGGTTGCACAGCATACCT  
ATAGAAATGGTGGCACCAGATTTATTTTTCGTTGAGAGCGCATGTGGCTA  
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>Sequence 1030

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GGGGAGTATAAGCTGAGGCAAACATGGACTCATTTGTTTCTAACTTTCA  
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TTCTGAGTAGTTACTTGATTGTTTCGGTGTAGGTTTCAGGGAGGCAAATCTG  
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TAGTGGCATAGTATGGTCTTAGGAGGTGTAGAAGTACGTCGATGCTGTGT  
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>Sequence 1031

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CCAGAGTGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAAC  
TATAAGAATGACAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCAC  
TTGCAACTCCCATTTATGTCTCTAGGGATTGAGAAATGAGGATCGAGGGA  
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>Sequence 1032

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CAACTGCCATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATA  
ACAATGCTATGATATAGACTGTGTTCTTTTAATAGACAAAGGAACCC  
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GCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTCCACGACAGCAGC  
TTCTCAATGCTCTTTGGAGGGACCAGAGCCCAGGCAGTAGCAACGGCTAT  
GAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATTGGCCAGAGC  
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>Sequence 1033

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TCCATTTTTGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGA  
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>Sequence 1034

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AGCTGAGTCCCATTTTATATGTTTATTGATGTTTAAGATTTTCTGTTCAA  
CAAATTGTTCATTTTCTTTGCCCGTTTTTCTTTATGAGTAATTTCTTTGT  
ATATTCTGGATGTTGATCATTATGGATTATAAAAAGCTGCAAGTATCTTCA  
CAAAAAACGAATTTTCTGGCGGACCGAACAATTTATGACTGACAAAAAGA  
ACGGGGGGCGGCCCTTTCCACTCTTTAAAAAAAACACCCCCCACCCTCC  
CCCTAACCCCTAAAAAAAAGAAAAACGCGGGTGGTGGTTACCACCTTGTC  
TCTGGCACTTATTGGTGGCCACTAAAAAACCATTTGCCATAACTTATTCA

Table 2

AAAAAAGCGTCTTTTTGTCTGCTGTATACCAAGCGGTGGCAGGCCCCAC  
TCAAGAGTTTTTTTTTATTGGGTGGCGGGCCCCCGGGTTCCCCGAACAA  
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TTGAGTATGCTCTGGCCAGCGGGCCAGTCTTTCTTCTTACACCAGAGG  
GCGTTTTTTGCTGTTTTCCACACAAGAATCTGGTTGAATCTCCGTCGAAG  
AAAATAATGTTGTTAAGTAAAAGCGGCCGGATCGGTGGTCTGCCCCTTA  
TAAGGGGCGCCCTGGATGGATGGCCTTTATAAAACGGGGCCGCCGCCCT  
GTTTGGCAGGCAATTAATAATTATCGGTCTCTATAGGTTGGGTGGTTGAC  
CAAACCCCATTA

>Sequence 1035

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ACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAAT  
AGCTTCTTGGCCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGT  
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GCACAACAGATA

>Sequence 1036

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GGAGGCCGCCCAGTGTCTGGGCCACGCTGGCAAGGAAGCTGTCTGTCA  
TCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
GAAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGATGTGGT  
CCGTATCACCAGCAGCTGACCCTGGGGAGGACCGTAGAGCCCCAGGACA  
TCGCCGTGCTCAGCCCTACAACGCGCAGGCCTCTGAGATCAGCAAGGCC  
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CCAAGAGGGGCTCTGCCTGATCCGAGACCAACCTCTTCTGCGCTGGTTGG  
CCCTTTGGCGTAACCCCTCTGACTTCTGGGAGGCTCAACAAAACCTTGT  
GCCTGCCCGCCAGGTGCGCGTCTTGAGGAAGCCAACTATGCCTTTCTGAA  
GAGCCCTTTTACCTGCAGGTCCCAGACTGGAGGGAAGATCAGGGCCCCC  
C

>Sequence 1037

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ACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAAT  
AGCTTCTTGGCCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGT  
GGGAAAATTCCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGG  
TAGTGGAGCCTTTTCGATTGAGGCACAGCCAGGACTGCTTGCAAGGGAAA  
AGCACAACAGATACCATAAGGAGGTCTGATTTCTGAAAGGAATACCTTGG  
CCCGGAACACCCTAAGGG

>Sequence 1038

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TTACAGCATAGGGTCTCTTGTAGTCTCTTAGTAAAAACTATTGTGACAC  
TTCCTTTCTTCCAAATATTCGGCCTGGAAAGACCTAAATACAATGCAG  
GGATTGAATCAAATTCACACATTTTTTTTCTACGGAAACAACACCTTT  
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>Sequence 1039

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AGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGC



Table 2

TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
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TGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCT  
AGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGT  
GTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGG

>Sequence 1040

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AAATGTAGATTATTTTACTACAGACTGAGAAACGAATTAAGTAGGAGCC  
TAAGATACTTTCTGGAATTGAAATGATACATTATATATACCTATAAAGAT  
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AATGTC

>Sequence 1041

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CCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAAATAAA  
TATAAAAAACCAGTCAACCGTATTCTTATTTCTTCGTCAGAGAATCATGT  
GTCGTTTGGTTTAACTTCCTGCTGGATTCTGGATGGGAGTTGTTGAACAT  
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AGCGCN

>Sequence 1042

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TCAATTTTAGGATCAAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA  
ACATAAAACTTCTGAGATACCAGAAATTTTCCAAACATGGTATAAACAG  
TATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCAA  
ATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTCTATTCC  
ATATCTTAAACTTTN

>Sequence 1043

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TCATTTAAAAAAGTGACTTTTCTACCTTTAGATAGTGAGGACAATC  
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AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGGAGTTA  
GGACCAAAATTAAGATTTGAC

>Sequence 1044

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AAAGTC

>Sequence 1045

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ATACTTTTGCTTAGTAAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGG  
AACCTTTTCAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGG  
AATACCTCCCTGCAAAATCTTACACAATACTAATGTCATAAGGCCGAG  
GATGAGAAAGTAGCACTTAACTGTTTCATCCTCATCACATAAAGCATT  
CCN

>Sequence 1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTTCCATTTAACAGCAACA  
TTCAAATATTTCCCATTTCTGCTTATTATTCCTCTCTGAAGGTGATACATA  
GAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGC  
TCACATAGATCTTAAAGGAGAGAATGAGGGATTTGCCTACAACCCACA  
GCCAATCTATGTGGACACAAAGGGTGACTTCTTCCTTCTATTACGTTCTT

Table 2

TGAGGTAGAAATGGTAAACTAGCATGACCTCGAATCATAATTTAATATCA  
TTCTAA

>Sequence 1047

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GTCATGATATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACT  
GCCCAGTATTTGCCTTTTTCAATTTTACTTTGTAAGAACCTGACACTGT  
AGGTCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAAC  
TCATAGACCAAAAAAGCTAAACAAAAACAAAAAGGAAAAAACCTCTATAT  
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TCACTGC

>Sequence 1048

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ATTCAAATAATTTATGGATCAGAAAATAAATCATATAAAGATCTGAGAA  
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>Sequence 1049

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TATCAGCTCATCACACCACCGAACTCTCTGGTGATTTGCTATCCACATC  
CATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGGTT  
AAAATGGCAGGTGTGTTGACAAGAAGTGTCTTAGGTACC

>Sequence 1050

ACCTCTCATCTCCAAATCAACTAGACTCTTATGTGAAGAATACTAACAAG  
AAAAATCCAAACCCCCAATAGAAAAATCCCCAACAAACATATACCCT  
TAAACACAAGAAATTGTATTATTCAATGAAAGCAATACAAGTAAACACAAC  
AGTTACCTTGGCTATTTTTTCAATGTACC

>Sequence 1051

ACCCATCTCTCCATTCTGGGAATCTGGGAACTAAGCCTGTAACCTGTGA  
GCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCAT  
TAAATGCACAGGTTAAATAAATAAAAAATCTATTAATAAAGAGCCTAAAGA  
AAGAAAGATGACATTTTCAGCATATTTGGGTGAAATAAGTTGTTTAGTCC  
AGCACTTCTCAATTTTTAGTGGATATGTGAATTGCCTATTAAATGCAAA  
TTTTAAATTAGTTAATCTGGGTTGGACCTGAGTCTGCGTTTCCAACAAGC  
TCCCAGGTGATGTCN

>Sequence 1052

ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCA  
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ATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCATTGAATTAGGAAT  
CACATGCTATTTATTTTAGCAGATATCTTCTTAATTAAATGTTTGACCCA  
TGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATA  
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>Sequence 1053

ACAATCAAAAAAAGACAAAAAAGAAATGGTGTTAAAAGCCACAGTAAACA  
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CAATGCCCAAAATTATACTGAGGTATTGGGGTGGGCTGATACCTTCAAAC  
AGGGAGAGAGGGACCATGTTTCAGGAGGTGATTTCCTCGATTTAGGTGGTG  
ACTGAATTTTTTTTTTAAGACAGGGTCTCACTCTGTCAACCAGGCTGGA  
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GCGATCCTCCACCTCAGC

>Sequence 1054

ACAATGAAAAATTACAAAATACTGTTGAGAGAAAATTAAGAAGACAAATAA  
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ATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCAGACT  
GGTTTTGTCTGAACGTTTTTGAATAAGTCAATGGCTTATTTCAAATTTCA  
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Table 2

AAGATTGAGGATTTGCAATAACTGACTTCAAAACTCACTAGAAGAACGAG  
GCCAGACTGCCAGGGT

>Sequence 1055

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CAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAG  
TGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACA  
TATGAATTTGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCAT  
TTTTAACACAAGAACTATTGAGATTACTTATATATTAGTAGTAAAATGTT  
TGCTTTATTCATTTGATTGGCAAACCTTATAATGAACTCAGTGAAACTTGT  
CCACCTTTTCTACATGTN

>Sequence 1056

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AATTCTTAAATCTTTAGTGTGGTGTCTATTAATTTTATGATGATTTACA  
AGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAG  
AGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC  
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AATGAAGTGGAGACCTGCTG

>Sequence 1057

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TGTCTTCTTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTG  
TAAGTATAAACAACCTTACTATTAGCTGTAAATTTTCATTTTATGATG  
TCATCAATCTTTTTTGTGTTAGTATGATTAAATGTTTTTCACTTGGAA  
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TATTTTTGTAGCTACAAAATCATAAACN

>Sequence 1058

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CATTCAAAACAAAATTGCCACAACCATTTGGAATATGTGTTTAAATTAG  
ACAGTAATGCTTTGGAAAGTGGAAATTAACATTTTCAGAATAATAGCTGTT  
AGGCCGGGCTCAATGGCTCACGCCTGTAGGGAGGCTGAGGCAGGTGGATC  
ACCTGAGGTCAGGAGTTTCGAGACCAGCCTGGCCAACATGTTAAAACCTA  
TCTCTATTAATAACAAAAATGAGGCATGGTTGGCAGGTGCCCGTTGTC  
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CGAGAGAATT

>Sequence 1059

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TATTAATATCAACTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGA  
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CTAATGTCATAATTCAATTNTCCCTGCTTCCCTACTATGACTAGATGTTGG  
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TGAAATAATCTACAAAACCTGCAGTTGTNCTGCTATTCTCTAGATGGAAA

Table 2

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CATTATATATGTGATTTTTTAAAAATGGCAATCATGTTTT

>Sequence 1060

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TAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAA  
GACATGTATAACTACAGTAATTTTAAAACTGTTTTCTTGCATAAGTATA  
GAGAAATGTACC

>Sequence 1061

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TCCTTCTTTGATCTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACA  
AGGAAGTTTGAAATAGAAAGCCAGAACCTGCCCCCAAAGATCTGACAGT  
AGTAGAAGGAGATCCATTATTAAGAAGGTATAATGGCAACANAAGAATAA  
TCACAAATTATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGGA  
GATGAGGAAAGTGGTTAGGGAAGACTTTATGGAGGAAGTGGGCTGTCAAC  
AGGGATTGAATGTGACAAGAAAAGTTGGGGGGAATTCATGGTAATGACTG  
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TTGCAACAACAGAACTAATTGCTTCCTTTGCCTGGAGTTTACTGGGGGC  
CTTTTTTAGTTTTGGTTCCTTCCTGGTCTTCGGTCCAAAACACAGGAAGG  
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AACTGGCCACACTGGATTTCTTAAAGGGGGCTCCTTTTTTGGAAAAAAT  
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TTTCTTCCCCT

>Sequence 1062

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CAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAAT  
AAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACAT  
TCTTTTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATT  
TACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATAATAGATGC  
TCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAG  
TGAGCAAATTTCTCTTAAAGAACAGACTTTTAAAGTAACAAGCAGTGA  
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TTCCCGCTTCCTACTATGACTAGATGTTGGGTGGTGAATGGTTTATAT  
GATTCAATTATTTGGTTGGGTGGATTAAACCGGGAAATTTCTACCAAAC  
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TAAAAATGGCATTCCGTGTTTTTTTCCAACG

>Sequence 1063

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AGTAAACAATTGCAGGGCGGCAGGATAACCTCATATTGGAATTGTTAGAA  
AACACGCAGTGTTTTACAGATGCCCTACATTAACCACNCTTCATAGAGA  
CGTGGTCTCTTCATTATGTATGGTTATGGTATGATCGTTAAACCATCAAT  
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ATAATATCCCAGTTTTGGTTCGTAACCGGTAATTACCTTTTTTCGTAATTC  
GATTTTTAGGTAAAAATGGTTACCCCATTAATTTAAGAGATAAAAAATAAAG  
TCTCTACTTTTGGAGTCTTTAAGGTTGTCTATATTGGCCACTTTTGTG  
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CCGACTTTTTAAGGGAATGGAGAGATTCTTTCGACCACCCAGTTTTATT  
AAAAAGACCTAATAAGGATCCCCGATTTACATGGGGGGTGGGTGTGTAC  
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CTTTATAAAATATATTTGGATATTTTGGCACATATAGGGCTCAGGAACAA

Table 2

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TCTTCATAAACCTGGGGCCCTCCAAAAGAGAAAAATAAATAAAAAAT

>Sequence 1064

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TTATAGGCTGCAATATTTCACTTGGCCATAAACAACTTAATATCTCACAC  
CTAGTAGTATTCACTGACACAGAAAGGGAAAGAGAAAGGATGAAGAACAG  
AGGAAAGAGAAATAATTTCCCAAGATACAAATTTAATATTCCTTTCCAAAG  
CATAAGAGCAATTAATAAATAATTTCTCTGTTGTAGTTGTAGGATGGATTT  
TTCTACATTATTGNTCAGACATCCTGGANATAATATCAAACCTTTGTAAAG  
AACACAAAATATTTTTATTTTTTAATTAATAAACAATCCTTCTAAAGGGG  
TTTAAGAGCTTTGAACACAGGCCTTAGTAAAAGTCCCTTGGCCGCAACCA  
CCTTAAGGGCGAATTCACGACA

>Sequence 1065

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GTAAAGTGTGTGTTGGNGAATAATAGGGGAATGTNGGATTGGTAGCTGT  
TTAATANAAGATTAGGATACATTATAAAATTGCTTAAGGGCCAGGCGCT  
GTGGCTTTACGCCTATAATCCCAAGCACTTTGGGAAGGCTGAGGTGCGGT  
GGATCANCTGAGATCAGGAGTTCGAAGACCACCCTGTTCAACATGGTGA  
AACCCCATCTGTACCTGCCCAGGCGGCTCGAAAGGG

>Sequence 1066

CCCTTAGCGTGGTCGCGGGCGAGGTACCCACATGATCCCAAAGAGGAGGG  
GCCCTGTATAACAAGAACCAACCAACATAAAGCAGTGACTACAGGCACC  
ATGACAACAAAAGGAGTTTTAAAGTGCATCTTCAAATAGCACACAATTTT  
CCAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAAGCATTAAATTAGA  
TACAACTGAATTTCTCAAAAGTATATTAACACAGCCTACAAATAAATCCT  
CAAATGTACCTGCCCCGGTCGGTCGCTCGAAAGGG

>Sequence 1067

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TTTGTATTTCTCCCATTAAGTAGTGTGTTGGAGGCTTATTAGAATAAGCT  
GAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAAC  
ACATNAGGTAGGAGCCTGCCATAAAGCACCCTATGTAAAGAACTAAAAAGG  
GGTGTGTTTCCATTTTCTATGTGTCCAAGCCTTCTTCCATACTCTCGAG  
ATGACAAGAACACAAAGTTTGCTGAGCTTCACACCAACTAATTGACTAAA  
TCCAGAAAGTTTGAACATGCGAGAACATNTTTTCTTTTGTACAAGGG  
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TGTGAAGTTTCTGATTTAAACAGAATCATGGTGAAAAAGGGACCTTATTT  
TCAAGAAAATCTTGCATTATAAAACCCTAAAAAGTTACCTTCGGGCGGCG  
CACCACCNCCTTAAAGGGCAGAATATTTCCAAAACCACTTGGGCGGGACC  
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GTGAATTCAATGAGGCATTAAGGCCGGTTTCCCTTGTGTTGAAAAATGGG  
TATTCCGCGCTCCCCAAATTTTCCACAATAACATTTCTGAAGCCCGGT  
AAAGCCTTTAAAGAGTGTAAAAAGCCCTGGGGTGTCCCTATTTGGGGTGG  
ACCTTAACTTTCCACTTTATGGCGGGTGTGGGCTCCTTTGTACGGGTTTA  
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>Sequence 1068

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GTTTTCTGCTGGAATAATTTGTTGCTGTCACATTGATATGCCAACAAAAG  
CTAAGCAGGGAAGTCAGGCCAAGAAATATCTCCCTGCAAGAGAAGGCATC  
GCATAGTATCTCTCCATGCTATTTAAAAATTGCATTCTGCAACATAGAAA  
GGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACTGCTTTCTTTGGC  
CTTTACACANTCCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATC  
TGCCTTCTGTTGACTTATTGTCANCAGGTGGAGGGAGGAAGGAGGGCATC

Table 2

GCAGACATCATTCTATTATCTCAACCTTGCTTTCTCGGATCCAAAGCCAA  
GAAGTTGCTGTTCCATGCCCTTAGAGCTCTAATTTGGCACCTTTTCTGA  
AATGAAAGCTTGAAAGGGCTTTTGGCTTTGGTGAAACCGGTTCTGGGCC  
GGGCAAATTCTGGTGGTTTCGCGTCTGTCAGTGGGTCCTAATAACTGTTA  
TAAGTGTGGTTCTTGGGAACATTTGTAAAATATTTTCTATTGGTCACACA  
CCTTTCTGTTTAGACATTTATTTTAAACACAGACAAATGCTTAAGTGTT  
CCCGCCCCAGGGTTCTTAACTT

>Sequence 1069

GGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGG  
CAAGGGCTCACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGG  
TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA  
ACATAAAACTTCTGAGATAACCAGAAATTTTCCAAAACATGGTATAAACAG  
TATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCAA  
ATATCATGACCTGATTTTTTAGTTTTAGAAATCAGATATTTTTCTATTCC  
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TTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATGGA  
ATATGTGTTTCTTTTTTCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAA  
ATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCAT  
AAATGCATNTTCTTGGGGAAGTTTCCATGGTCAAAATATTAGTCATTG  
CAAAACAGAAAAGTTGACAACCTGGAATGCAGACNCTTTTGCTTGATTN  
TGTAAGACAGGA

>Sequence 1070

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AGAACTTCACACTGACATTTATAATTGTAAGAACTAAGAACCAACCATC  
AGCTTTTCTATGCCAATCCATGCCCTTCAGGAAGTTCTTGAGGCCTTGAG  
GTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCAGCTACATTTT  
GGAAAGAGGGAGAAATTAAGTTTTTTGTTGTTGAATTTATTATCACTAAGT  
AGTTTAAAGCTCTCTTAGATCCCAAAGAGGAAAAATTCAGGTCCATTA  
ATCAAAAGGCTGAAACTTAAACTTTAGNTAAAGTTATTTTGATTAAATAA  
CAAACCTCCGGTTTCTTCCACAGCCGTTTATCCGAAACTATC

>Sequence 1071

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TCCAAACATTATTTACATAAAATGTATTTTGATAAAGTAAATTTCCCAA  
CCATGGTGCTCAGAGGTTGTAACAGTCCATGTAAGTTGAAGAAAAAGAGT  
TATCAATCAATACGTGACTATCAATCATTTTATTTAATCATTATTTAGTTT  
TCACATATCTATGAATTCAGTAGAAGAACCAGCACTCATAAAGGTGGCCA  
TTCCTATACCTGCCATCGATTACATTATTTTACTTAAATAAAGCTTATAT  
TACATCTGACAACATTCCTTGTTAAAAAATAAATTCCTAAACAGGGCAAT  
ATTCCCATCTTTTAGAAATATGCCAAAAAATAATTTTAAACTCATTT  
GGAAACATTCCAGGAACCTATTCCAGAATCTATTTATTTTGAAAACAA  
ATTTGTTCAAAATAATCCTTTGGCTTGGTTGGAATAAAAAATTAATTCAA  
ATTTTCAAACCAGACTGGTTTAATTAATAAATTAAGGCCCAAAACCCCTA  
ATTTATTTACAGGGGGCCGTAAGCCAAT

>Sequence 1072

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CCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTC  
CCGGGTTCAAGAGATTCTCCCGCCTCAGCCTCTTGAGTAGCTGGGATTAC  
AGGCATGTGCCACCATGCCTGGTTAATTTTGTATTTTGTAGTAGACAGG  
GTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTGATC  
CTCCTGCCTTGGCCTCCAAAAGTGTCAGGATTACAGGCGTGAGCCACCAC  
GCCCTGCTTAAGTTTAAATAAGATCTCTTGGCAACTTTTTACGACTGGCA  
ACTTAGGTCTCACAACACAGAAAAGCTTGTCTTAAAGTATATIGTCTTT  
GAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTTACTTTAT  
AAATGCATGCACCTGAGAGAAAAGATATTTGAATGATATACANCCACATGT  
TAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAATTTTCTT

Table 2

TTTCTTGTTTATGCTTTTCTGAAGTTTTCAACCCCCATAATAAAGATGTA  
TCTCTTCT

>Sequence 1073

GGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTGCACATAAAGGG  
CATTTTAAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATGGT  
AATGTTAAACAGAAATCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTA  
GTATATGCCTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCC  
GGAAGTTCACGTTTAGCCTGGGCAGCATAGTGAGACACTGTCTTTTATAA  
AAACAACAGCAAAAATGATCAGTTTGGGATAGTAAGACAAATGGCTTTCT  
TTTGTTAGGAATTTCTCTATTTAAAGGACTTTTAGGCCTAGAGTGGTGGC  
TTACGCTTGTAATCCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCACT  
TGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTAGGGAGACCCTGTCT  
CTTCAAAAAAATACAAAAATTAGCCAGTGAGGTGGTGTCTTGCCTGGGGT  
CCTAGCCACTGGGAAGCTGGGGTGGGAGAAATACTTGGGCCCAGGAATTT  
GAGGTGTAGTGAGCTATGATCCCGGTACAGATTATAGACCCTGTCTCTA  
AAAAATTAAAAATAAACCTTTTTTAAAGGACTTTAAAGTTGGATTTTTT  
CTTGTTAAGTTATTATCATTCTTATGTCTGTCTTGACCTGCCCCGCCGG  
CGTTAAG

>Sequence 1074

GGTACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTG  
CTAGGAGCCCCGGCTTCTTCCCTGACCTGCCCCGTCTCCTACACCCTCTGG  
TCCTGCTCCACACTGGTCTAATAACTGGTGTTCACATTCTCTAACGTG  
CACAACACAGTCCTGCCCCCGTGCTTTTACCTCCTGTCCATTCTCTTA  
TAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTTTGCTCATCTCAAG  
GTAGAAACAACTGTCGCTCAATCAGCTAGAGCCCTCCCACTATGCTCCC  
GCGTACCTGCCCCGGCGGCCGGTCAAAGGG

>Sequence 1075

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TTTCAACAGAAATCAGAGAAGTGAAAAGACAGCTAAATGGCATCATTGAG  
GTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAATA  
TCCTTTAGGAATGAAAGTAAATAAATACATTCTCAAAGAAAAACAAAGA  
GAATGTATCCCCAGCAGACTGATCTGCTAGAAAAGCTAAGGTCAACATTA  
GGCTGAAAGGAAATGCTGCATCTTCAGGAATGAAGAAAGAGCAATAGAAA  
CAATAAATATATAGGAAAAACAAAAATACTAGATTTTTCTCTAAGTTCT  
ATAAAGTACC

>Sequence 1076

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TTGTATTGTCAGGAATGTCTAACATTATTTGTCACTCATTGAGAATTAAA  
CTGCCAACTAGTAGCATTTGTTTTGTGTCTGATAGATTCTTCATGCAGAA  
AGAATAAGTAAATGAGATGGGACACAAATCTGAGTATAGCATTGTGATT  
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ACAGAATCCACAAATCCAGATTTAAGAAATAGGTCTATATAAAGCTTAT  
TTAATATTTGGTATATTTTTTAGTTACTCATTGCGTGTCTTTATAATGC  
AAAAGCATTTTTTGCGAATCTTGTTTTCTACTTAAAATGAAGAAAATCT  
TAACATACAGTGGTGAATAGGAACACCACACAACCCTATATATTGATTAA  
AGTAGTTTATTAGGTAAGCTTACAGTNGAAGTAGCTTCCGAAAAAAAAT  
ATTAAGAAAACCATTAGAGAAAGGGTATTTACTATTTCTTAAGGGGGAAA  
AGGTCCTATTATGAATCATAGGTGTTCTATTTATAAAAGGTATGTCCTTC  
AGAACCTGGAGAAGGGCTTTACAAAATACCTTGGAATATTCCAGGGGA  
ACAAATTGACTCAAAAAACAAGAGCTGGGTAAACCCTGGAAAAAAGGCC  
TTATAGCCAAAT

>Sequence 1077

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GTGTATATGTGTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAG

Table 2

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TATTGCTGGACTCTTAAGATTGCTTGTAATTGCTTTTTTGTGTGTGTTG  
AAAATTAAGGGTGTATATTAAGGTAGTTTTTACCCAGATCTTATATGTG  
TGATAGCTCACGTCTGTAATCAGAAACCTACTGTTTAATGGCCACCAAT  
TGCCATTAGCTTCCAGAGGGTGATTTAATAAACTATCTTTTAAAACT  
CATTTAAAAATTAGAGACATGTTTGCATACAATGGATTAATGACGTTTTCA  
CACTAACCACAAAAAGTCTGCTGCACCTTTCTTTTGTAGGCCTAACATTCA  
TTTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTACATCGTGC  
ATATATGGACATACAATGTCATCTGCAGAATTTAAGATTTTTTATTGTTA  
ATTTTTATAGGGACTGGGAAATTGAGAATTTAAATTAGCATGCTTCATT  
ATAATAATATTTCTAGTGGTTCATTAACCCCTAAAATGTGATTAGATCAG  
GATTAAATTGGGAAGAAAAATTTTTCTAAAATGGGCCTGGCCCGGCGGGC  
GTTTCAAGGGCAA

>Sequence 159

TGGCTATTGAGACCTCACCGCGGTGGGGGCCCGCCCGGGCAGGTACACAGG  
ACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAA  
GGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCTGTATAAC  
ATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGC  
CGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCA  
TGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGGTCCAAGT  
GTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTGACTTGGC  
CCCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACG  
GCAAGTCTGCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTT  
CGAACAAACAAGAAGGCCAAAAATTTGGCGTGATACATTCCTAGTGGGAAG  
AGGCNANATTCTACGTAAGAAGGAAGGATCCAGCAAGAATATCCAACAGT  
CAAATCACTTTGCCCAATATGAACGGGGTCAAGAACTATGCCAGCAGGCC  
AGGTACCCTTGGCCGTCTAGACTGGTGGATTCCCCGGCTTGAAGAATTCC  
ATTTTAAGCTATTATTACGTCAACTTGAAGGGG

>Sequence 160

TGGATGATGNATTGGTAGGCCTCATCGCGGTGGCGGCCCGCCCGGGCAGGT  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGG  
TCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAAATTTGGCGTGATACATTCCTAG  
TGGAAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGGCAGAATATC  
CAACAAGTCAATCACTTGCCCAAATTTGAACGGGTCAAGAACTATGCCAGC  
AGCCAGGGTCTCGGCCGCTAGAACTAGTGA

>Sequence 161

GATAACGTTGAACCTCATCCGAGGCCGGCCGAGGTACCATCCTATTAATA  
CTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGATGATAGAAATCAA  
TGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGGC  
TTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAG  
TATCTATATACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTAT  
TCCCACTTAAACCATGAGGTCACACCACAGGATATAACCCATTGGCAGTG  
CATTGATGTGGGGATGTGCAACTGAATATCCGGGCACCGCCAATCACAAG  
TTGCTGTTTGTGATGCTGGAAACGGTGGCCTTCAACGCCGCTTCCCCCTT  
CCGGGAATCCCCGCGTCTCCCCCGGGGTNNNTATTTCTCTAACTACTCA  
GTCTATTCTCACTAAAATATTCTTTATAATTTAACTTTATACGAATTTA  
ATAGTTATTCACTATTATTTATTTTTATATATTACACAATTCATT  
TTTTTTAAATCAATACTTAACACTTTCTTTAATATTTTATACAATATA  
CCAATAGATTATAACATTTTTACTTATTACATCTTTCTAC



Table 2

## &gt;Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT  
TTGGGCAAGTGATTGACTGTTGGATATTCTTGCTGGATTCCCTCTTCTT  
ACGTAGAAAATTTGCCTCTTTCCACTAGGAATGTATCACGCCAAATTTTGG  
CCTTCTGTTTGTTCGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAAGGCACACGAATA  
TCAAAGTCATATGGCATGGATTTCCCTTGACCAGTCCAAACTGCCCAAT  
ATGGTAACCATGGTCGGCGGTGTAAATGATGTAAGGATTCTNCAGCTTCC  
CCGTCTCCACGAGCCTTGTTACAGGCTTTCCACAGAATTAT

## &gt;Sequence 163

TTATTATCGATGCGCACCACGCGTCCGGGTGGCTCTATGTAGTTCTAATT  
TGCATTTCTCTAATGACTAACGATGTTAAACATATTTTATGTACTTGTT  
TCATGTACTTGTTGATATGTCTATTCAATTCCTTTCACCATTTTTATGGA  
GCTGTTTTTTTATTATTGAGTTGTAGGATTTCTTTATATATGCTGCATAC  
CAGGCCCTTTGTTATATACATGCTTTGCAATGTACATTGTCTTAAATCTG  
TGGCTTGCCTGTTCAATTCATTAGTGGTGTGTTTGTAAAGCAGTTTTTAAT  
TTTGATGAAGTGAACTTATTCATTTTTTTATTATGGTTATTGCTTTATGT  
TTCAGGTCCCAAATTTGCTTCTCACAAATCACAAACATTATCCTATGT  
TTTCTTCAAAAATTATATGGTTTTATGTATTTCAATCTCAAAATATTC  
TCTAATTTTTTTGCTGATTTATTTACTAAAGAAATTTGAGGGATTTGCTA  
TAATGTTAGGGATTTTTCTAGATGCCACT

## &gt;Sequence 164

TCGATGACTCACCGCGGTGGCGGCCCGCCCGGGCAGGTTATTTAATTTCT  
TAGTGTCTCAATTCCTCCTCTATAAAACAGAGATAATAGTATTTAGCCC  
AGAGGGTTGTGGTGAAGTGTGAATCATTCTCCATGTAAACACATAGGA  
CAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTACTTGAGAGGCT  
GAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGA  
GATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTC  
AAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

## &gt;Sequence 1078

CATGCGCTGTATATAAAATCTTCGTCTTGTTGTATATATATATTTAAAAA  
TGTCGATGACGTTTAAACAGATAAAATNNNTNANCNCNGNCGTNNTTNNNN  
NNAAAGTGGNGGNGGATTGTATACGACTATATAGGCGAATGGGCCTCTC  
AAGCATTCTCNANCNGNCGCCANTGTGATAATTCTCTCTATAATCGGCCG  
CCCGGGCAGGTACAGACTTAGTACCTTTGCTTTTATATATTGTGTTTTT  
GCATAGATATGAATAGTTTCACTAATTCATTGATGGTACTGTAAACATT  
CTTAAACTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCC  
CTTTATGGACTATAAGTAAC

## &gt;Sequence 1079

GGTACAGCTCACATTCATGGGGAGGAAAAATCAGGGCCTGTCTTTAGATAG  
GAGATGTATCAAAGAATTTGTGGACATATGTTAAATCACAGCACTACTC  
TTGATGT

## &gt;Sequence 1080

CGATATGGGAGTCGACCCACGCGTCCGCTGCCATCGCCCAATGGGCTCAT  
AAACAAAGTGGCCATGGTGGCAGGGATAGACTTTCTCAGCAACATGGACT  
TTCACTACCAAGGCAGACCTGGCTACAGCCACTGCTGAGTGCCCCATTT  
TCCAGCAGCAGTGCCCAACACTGAGCCCTTGATATGGATCATTCTTGGG  
TGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTTCCAT  
CATGGAAAGGGCAGAAGTTTCTCCTCCCTGGAATGGACACTCCAGATATG  
AGTTTGCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGA  
TTCACGGAATGCCTTATCCACCGTCATGGTATTCCACACAGCATTGCCTC  
TGACCAAGGCACTCACTTTACAGCTAGTGTGACAGTGGGCTCATGCTCTT  
GGAATTCAGTATCCCACCATGTTCCCCACCATCCCGAAGCAACTGGATT  
GATAGAATGGTGAATGGCCTTTTTGAGTCACAATAACAATGCCAACTAA

Table 2

GTGATAATACTCTGCGGGGCTTGGGCAAATTTTTTCAGAAAGCCATTGTT  
GCTCTGAATCAGCATCCAATATATGGCATTGGTATTCATACCCAGGATT  
ACAAGTCCAGGAAATAATGGGGTGGGAATTGGAATGGATTACTTAACATTA  
CCCCTAATGATCCATAGAAAATTTGGCTACTGTTCCACACATTCTTCT  
GGTGGTCTAAAGGTTAGATCCCAAGGAGAAAGTTCCACAGAA

>Sequence 1081

GGTACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTT  
ATGCTGGATGGACGCAGACCTGTAACACCTCTGTTTTTCATCTTCTCCAC  
CATATTTTTTCATCAGCCGCTCATTGTTTTTCTTTCTGGATTTTATATG  
GCACGCTGATCTTGCTATGTATCACCTCGAGCCTTTCTTTTCATACATC  
TTCCTCAACCTACAGCTCATGATCTTGACAGGTCTTCACCTGTAAGGAGC  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTCATGAAGAGCATCC  
AGGATGTGAAGAGTGATGACTAGGATTATGATAAAGAAGATGAAAAGGGA  
GATGAAGAGGCTACCCAAGGCAAAGAAATGGATTGTTTAAAGAACGGCCT  
TCGGGCTTGAGAGGCACCTCATTTCCAATGGGCAGCATTGGCCTTAAGTG  
GAAGCCTACAGGAACTCCTTGGCACCAGTTGCTTAAAGTAACTTGCCCGG  
CCGGCCGATTGAAAGGGGGA

>Sequence 165

TCTTCCATACTTCGTAACCTCTATACATTTACCATTGTTATCATCTACTAT  
AATTATCCATCTTATACTTCCGAACCTCGTTTAATAGTATTTATCTAATTA  
TTATATAATTTCTATTTATAAATTACTTTTCTNACTGCNAANAGCCNTTGTG  
TTTTTATCCGCTGACGAACCGCGCAGGNACCGGCATCAGCATTAGTAATC  
AACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAATTATTCCTGCAAGC  
CAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGA  
GAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTTACTGAAAG  
CAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAAACCAGAGGGGAGCA  
AAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCC  
ATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTCTTAGTTTG  
CAGTTACCCCTAAAGGTGACCAATGATGGTCACCCAATCAGCTGCTACTA  
CTTCTGTAGAAGGTTAAATGTCATAATTCTTAGCTTTTCAGGAATAACT  
TTACCCCTGGCACTATTAATGAAAGCTCTACCGGGGTGCCTATGTCTTAAG  
GGTGGTTTGGACCTGCTTCAAATAATTTCTTACCTTTCCCATCTTCCA  
GGGGTCTTGGGCGGTCTGAACTAGTGGGATCCCCGGCCTGCAGGAATCC  
ATATCAACTTATATGTCCCGCGCCCTCAGGGGGGGCT

>Sequence 166

TTCTATTATTCGTTGATCGACTATTCCTTCTTCGGTNTATTGATTGAACA  
GTATTCATTACTTCTATTACTTCTTTTTATACATCCATTATCGTCTGTT  
ACGATGTTTATCTATTATTATGTTTCTACATTATGTTTATTACNNNNAAG  
GGTCGTTGCTTTGTAGCGCNCCTCTCCNAGTGGCGGCCGNGCGGGCAGGTA  
CTTGCTCAGCCTTGCCAGGCCCTCTGATGAGCTCTTAATCAGCAGGAC  
CAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAAG  
AAAGGTGGACAGCCTGTTCTGCTCTCATGTACAGCTAGGGCTGGGAACAG  
TTTGTGAGGACTTATCTGTTGTACCT

>Sequence 167

CCGCCCCGAAGTACGINTCCGCTAATATTGATGGCAATTTCTACGTTATT  
CTCAACTCGTTTTTCATGTTACTTATATGACATCTACATCATCAGTTTATA  
GTACATAATATNTNTNNAATGTATGTGCTGGTAGCGGGCTGNCGNCCGG  
GCAGGTACGCGGATGGCAGCTGCAGCGCAAGTAGGTCTACAAGACGCTA  
CTTCCCTATCATAGAAGAGCTTATCACCTTTTCATGATCACGCCCTCGGA  
ATCATTTTCTTATCTGCTTCTTAGTCTGTATGCCCTTTTCTTAACACT  
CACAACAAAATCTAATACTAATCTCAGACGCTCAGGAAATAGAAA  
CCGTTTGAACATCTGCCCCATCATCCTAGTCTCATTGGCCTCCCA  
TCCCTACGCATCCTTTACATAACAGACGAGGTCAACGATCCCTCCCTTAC  
CATCAAATCAATTGGCCACCAATGATACTGAACCTACGAGTACCCT

>Sequence 168

CTTGTCCTTTCACCTTACACATTTTTCCAACCTTCTATCTTAATATCACAT

Table 2

TCTCTATATTTTCTTTTTTAATATAAAATATAATATAGTCTATCATATTGT  
ATTAATNNNNNTGTTAAGTGTGCTGTAGCGGGCCGCCGACGCTGGCAT  
TGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTTTCTAGGACAGTTC  
GCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGTGAAAT  
AGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACCT

>Sequence 169

CCGTGTGCCCATTTGANANTCTGNCTTACCGNGGNGCCGGCCGCCGGGCA  
GGTACTTCCACTATTATTGAATGTATTCTGTATTATAATTGTATATTTGA  
TTGCCATCTCCCCCACTGCATTATACATTTTTCATGGGTGAGCCAGTG  
TCTTTTCACTCTATTTTCAGTGCCCTGCACATTTTCTGGCACATAGTAAG  
CATNCCCAGTGNATCTGATGNAATAAATGTANTTTCCCTAAATTCAGG  
TTCAGTATNCCTTAATCTGNAAAATACTAAAAATCCGAAATGCTCATAAAA  
TTCAAAGCTTTTTTGAGGACCTGACCTCGTGCCTCAAAGGAAATGCTCAT  
TNGGAGCATTTTGGACCTTCAGAATTTTCAAGATTANNGGGATATTCATA  
CCCGTAAGAAATAAGTGCTCAATATTTCCCAAAATNTNNCAAAAAAGTCT  
TTGAAATCCCCAAAACAACCTTTTCTGGTCCCCAAGGTATTTTTTGGAAAT  
AAGGGGATTACCTCANACNNCTTGTACCGTNNAAAATACCCATGCANNNT  
ACTNNTTCGATTAGGCACCCATGTGAAAGGGGTATCTTTCTCTTANNA  
TTGANACCTCATTGGGNNTTTCGTTCTTCAAGCCAAAACCTTGACCCTGG  
GGCCCCACTTTCAACATGNNGCTTTTAATTCCGTGCCCTNGGATGTAA  
ATGGCCATGGTTCCTCTTTTTTACCACATAAATTTCAATGGCCCCATCA  
AGATTGAATATTCACATTTTCGACCATAAAGTGGCCATTCAAGGTCCCTT  
CAACAAGCCCACTCATAANGGTTTTCTCCTCTCTCCATCCAATTTTGG  
TTCCTTATGAAAATTTCTACCTTTGGCTTTCCCCCAGGAAACCTTTAAGT  
AGGTTTCTCGGTTCAGGTCCCGCAACACCACCGCAACGCGGGGTCTCCGC  
GTAACCTTCGGCCGGTTCTAGACCTAGTGGGATCCCCCGGGCCTGGAGGA  
AATTCGAATTCAAGGCTTATCGATTCCG

>Sequence 170

TGTGTCGATCGGTCACCGGGTGGCGGCCGAGGTACTTAGCTGTGTTTTTA  
TTCAAAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTATTAGGAT  
GGTTTCACAGTTACCATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGG  
GCATGATTTTCTCCATGTAATCCAGGGAGAAAACAAGCCATGACCATTGT  
TGGTTGGGAGACTGAAGGTGATTGAAGGTTACCATCATCCTCACCACCT  
TTTGGGCCATAATTCACCCAACCTTTGGTGGAGCCTGAAAAAATCTGG  
GCAGAATGTAGGACTTCTTTATTTTGTTTAAAGGGGTAACACAGAGTGCC  
CTTATGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAG  
ATCAAGAGAGAGAAAACAATGAGGAACATTTTATTTGACCCAACATCCTTT  
AGGAGCATAAATGTTGACACTAAGTTATCCCTTTTGTGCTAAAATGGACA  
GTATTGGCAAAATGATACCACAACCTTCTTATTCTCTGGCTCTATATTGCT  
TTGGAACACTTAAACATCANATGGAGTTAAATACATATTTGAAATTTAG  
GTTAGGAAATATTGGTGAGGAGGCCTTA

>Sequence 171

TGTTGTACTTATCGGGGGCGGCCGCCGAGCGGCGGAGCATGATGGA  
AGTCGTAGTAGGAAATGGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAA  
CCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCC  
AAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGG  
GGGGAGCCGAGGTTCCGGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTAT  
GACTGTACCTCGGCCGTCGAGCGGCCGCCGGGCAGGTACAACCTTTTATA  
CAACTCAGGAGATTAAAAAAAATCTCCACAAGAAGAAGCAACTCAGCAG  
GCCCTGGCATTAAACATTTCCAGAAATAAACAGATATGCATTGCATTAA  
AGGTAATTTTCAAATATTTAAGTTACACCAAGATTTCCCTCCAATATGTG  
CCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGGCATGAAT  
TTTTGGCAAATGTTTATGGTTTTACTTTCTTCAATCAAAAAATTTT  
TAAAGTGCTACCAAGCAGCAAAACATGTCGCATCAGTTCTCTGCTCATGG  
CAGAAGTCCCCTGTGAAATCGCAAAAGGTAT

>Sequence 172

Table 2

GACGATGCATTACCGGGCGGCGGCCGGGTACAGATTTAAGGTTGATGGA  
CTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTGAAGGTCTGTGGCACT  
GAGCTACTGGGAAGGAGGGCTCTGTTTTTCATTGTGACACACTGAGTTAA  
TAAAGCACTTACTGAGGGAGCCAGAGCCCAAACCTCTAAATGTGCTGTAGA  
AAAAGGGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAAG  
GATTTACTCTTCAGCCATCTGGTAGAGCCCAAGAACAAGTTACATGTGG  
ACAAAGGGAGGGAGAGGTATCATGGTGATTAATAAAATTCAAACAAAGCTG  
AATGATAAGACCCCAGGATGGAATACAGTCTGAGAAAGGCCTGGGCAAG  
GGAGGCAGAGGGACTGAAGGAAGCAGGTCAAGGAAGATACACCC

>Sequence 173

AGAAATGACCCTTACGCGTGGCGGCCGAGTACGCGGGATAGGTGGAAAAA  
AACACTGCCATTACAAGTCAAGGAACCCAGGGCCAGCTGGAAGTGTGGA  
GCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTGTCTGAG  
GTTTGTGTAGTAGTGAAGATTTTAGGTATGTAGAGCAAGTTGAAATGGA  
TTGAGACTGCATGGGGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCT  
ACTTGAAGGAAGTGGAGACATAAGGAGAGACAAAAACAGGTTTGTGCCAT  
AAAGTATTTTTTCAAAGACACCAAGATGTGGGTAAATGAAAATTATTAGT  
TCACCTCCCTGCTGGCATGAAACTTTGCCTTAAGAAGGGTGGCTGGAATT  
CCAAGGTTTGGTAAAGGGCAATTTTGGGTAAAGGACTGGCTTTTTTGA  
TGCCTTATG

>Sequence 174

GTTTGATTGCGGTGGCCGAGCGGCCCGGGCAGGTACCACTAGGGTGT  
TGTTAAAGGACTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAAT  
GGAATGAAATTTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACAT  
CCACTATGGTTTAAATCCATGAGGTCACAATGATACTTAATTTTTTCATTA  
TTCTGAAAACCAAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGC  
CTTTCCTCAATGAAATATATCTTAAGAGAACCGAATAGTTAACATAGAGA  
CATGGCCGGGCAAGGTGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGC  
CGAGGTGGGAAGATTGCTTGAGCCCAAGAGTTCTAGACCAGCCTGGACAA  
CATGGTGAAACCCTGTGCCTACAAAAAAAAAAAAAAAAAAGTCC  
CACTTCCCTTTTTACTGTAGGGGGGATAACTTTTAGGAATTAACTTTTT  
GAATATTATTTCTGAATAAAGCATGTGTTAATGGTTAAAAANACAAAAG  
ATCAAATAATAGAAATAATAAGGTCCCTCGGCCGCTTAAAAATAAGGGGA  
TCCCCGGCTGGAGGAAATTCATTCAAGTTAATGATACCGTTACCCCTAGG  
GGGGGGCCGGTACCAACTTTTTTCTTTAATGGG

>Sequence 175

AATCAAGCGCATTATTCGTATTACTGTACGTAATACATCGACGTCTGCTA  
CTCANATTTTTACTTTTATTATATATGTACACTCACTCTATCTATATATAC  
TATTATTGTATCTATGAGGCTATNTATATATTTANNNNAAGTTTGGTGTG  
CGCGACCGGCCAGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTG  
GAGAGACTCTGTGGACGTAAAGAAGGGAATGAACACAGAGAACTTTTCAG  
CCAGATTCTGAGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAAC  
CATGCAAATGCAGCGTGTGTGGGAAAGTCTTCTCCGTCATTTCCTG  
GACAGGGACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGG  
GGAATGGAGAGAGACGCCCCGGAACAGAAACAACATGGGAAAGCCTTCA  
TTTCCCCAGTAGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGA  
CCTTATGAATGCAAGGGGTGCGGGAAAGCCTTTAATTCTCCCAATTTATT  
TCAAATCCATCAAAGAACTCACACTGGAAAGAGGTCCTATAAAAGGAGG  
GAAAAAGGTGAGAGCCTTTACAGTTTTCAGTTTCTTTTGAACATGGAA  
AAATGCATACTTGGGAAAAAACGCTATGAATGTAAATACTGTGGAAACC  
TAATCGGTTATTCAGGTTATTTTAAATTCATGTTAGAAATAACACTGGG  
GAAAAACCTACCAAAGGTAACCATGGGGGAAAGGCTTTATTTCCGAGGG  
TACCTTTGGGCACATTGAAATAAACTTAACCGGCTGGT

>Sequence 176

CCGGCCAGGACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTT  
TCCTTTCTCGTTCCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCG

Tabl 2

TCCCGCTCCTAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT  
GCCT

>Sequence 177

CCCCCGCTTACCCGACGCCGTCGCGATTGGAACCTCCCGCGGTGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTTCTCA  
GAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCA  
TCTCCCCACAGACGGGGTGGTTCTAGA

>Sequence 178

TGGGGCGTTGAGACTTCCTCGCGTGGCGGCCCGCCGGGCAGGTACCAAAC  
CATTTTCACTAGTTCAGGATAGGAATATTCATCAGATTGTCTCTGTAAAA  
GTGAATCAGAAAAATTCCACCTGTGTAGGTGTGGGACTGGACAGCTGAGT  
GACAGGGCCCTGGGAAGAACAGAAACCACTTTTCTCTTTCTCTGAAAT  
ATCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTAGACA  
TATTGCTGATTTTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTC  
CATTCCTCTGGACAGGCAGCCACAGACCAGCACTGCTTGACCCATGTGTA  
TACACATGTGTGCTTTGTACCT

>Sequence 179

TGGTCGTTGTTGCGGGCTGCCGAGGTACTCACAGTCACGCAAATTCAGT  
TCTGCGTGACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGG  
TCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGAGCGATAGATAA  
ACACACCTCCTCTGAACCATCCTTGGGGCTTCATGGGGTTGGCATTGAGGA  
TCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACTTCT  
CCAAATAAGAACAAGGACACACATTGTGTGTCAGGTCACGAAGATCATTGAG  
TTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCT  
TCTTCAATATAACCCCAA

>Sequence 180

TGANAGATTTGCGNGGCGGCCGAAAACTGATCAGACTGTCTCAGATCAA  
GGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTG  
GGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGA AAAACC  
TTCAGCATATGGA AACTGAATGATCTTCGTGACCTGACACAATGTGTGTC  
CTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGG  
GGACTGTGCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGT  
TCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTAT  
GGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAG  
AGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 181

TGGATATGTGCATCGGGGGCGGCCGAGGTACTCACAGTCACGCTCCTCTG  
AACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTC  
CCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACTTCTCCAAATAAGAACAA  
GGACACACATTGTGTGTCAGGTCACGAAGATCATTGAGTTCCATATGCTGA  
AGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC  
CCAAATGTACCCCAATCTATTTCTTCCAGCTTCTCTGCGCCATCTTTTC  
CTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 182

TGGATACTGCAATCGGGGGCGGCCGAGGTACATGGATACGTTCTCTTCTG  
GGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACACTCCTCTGCCTCAT  
TGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAATA  
AACCCAGACTCTCAGCAACGCAGGAAAAAACA AAAAAGTGGCTGGCGAT  
CTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTG

>Sequence 183

TGGATATCGAGACGTCTATCGGGTGGCGGCCGAGGTACGCGGGGAGCGGA  
AAGGGAGACTGTGGGGAAGTAGGAGCAACAGCAGGCATGGACCAAAGCAG  
TGAAGGATGTATGAAAAAGATTAGCAGTGTGAATCTTGACAACTTATAA  
ATGACTTCTCACAGATAGAAAAGAAAATGGTAGAAACCAATGGAAAGAAC  
AATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTAAAAGTAAT

Table 2

GCAAGCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATA  
TAATAAAAGGGCTACAACAGACCATTGAATATCAACAGAATTTGAAAGGT  
GAAAATGAACAACTAAAAATAAGTGCTGATCTTATAAAAGAGAAGTTAAA  
GTCTCATGAACAGGAATATAAGAATAATATTGCCAACTTGTAAGTGAAA  
TGAAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCAAACCTTATCAG  
GACATGCAGAGAAAAGTTGAATTAATGAAGAAAAGCACAAAGAACTAAT  
AGAGAAAAAGGAGATGGAAATTCANAGTTAAATGCAAAGCTCAGAAGTCA  
AAAAAAAAAAAAAATGAAATAATCAAGCTACAAGCTAGAANTTGATGCCA  
AACTAGCAAGAGTTCAGACTAAATCAAAATCTATCAGGATTTACTTGTTT  
>Sequence 184

TGGATGATGCTCATCGCGGGCGGCCGAGGTACATGGATACGTTCTCTTC  
TGGGGGCGGTCTCCAGTCCTTCTCATGAGGGAGCACACTCCTCTGCCTC  
ATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAA  
TAAACCCAGACTCTCAGCAACGCAGGAAAAAACAACAACTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTG

>Sequence 185

GCNNATGATTANTCCTTACCGGCCGCCCGGCAGGTACGCGGGGGTGTCC  
GGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTGCATTCTG  
ATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGA  
TGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAAT  
ACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGGA  
GTCTGCATTAGTTGGTGTGTTGCAATATCGTTCAGCAAGAATGGGGTGGTG  
CAATTCCTTGCCAGGTTGTCCTGGTGACAGACGGCTGTCTTGGCATTGGT  
AGAGGGTCACTGGAACATTCCTTACCCACTCAAACTTAACGAAGTGAGAG  
CAACCGGTTTCCACTACCTTTTCCCTTCCCATCTAAGTTATATACCAGGC  
GCGGGCGCAATTGGAGGGACACCGCGCCCTGTTCTTGGAATTTCTA  
AAATCTATTATATATTACACATTTGTAGGGGGCCATATTATAATTGTGG  
CCGCCCTGTGTGAAAAAAACTCCCTCGGCCTATAAAAAGTGGGCCCCC  
CCCCGGAGGGGGAATTAAAATAATCTAACCCCCCCCCCGGGGGGCCCC  
CCCCCTTTTTTTTTTAAGAGAGGACACCGCCC

>Sequence 186

TGGGCCGATGGAAGCGCTACCGCGGTGGCGGCCGAGGTAACACAGTCA  
CGCAAATTCACAGTCTGCGTGCACGGCTCTCCATTCTTCTTGGCTTT  
ACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGAT  
GATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGC  
TTTGTGAACCTTCCAAATAAGAACAAGGACACACATTGTGTGTCAGGTCAC  
GAAGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTC  
TGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTC  
TTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCA  
GTTTT

>Sequence 187

NGGATGATTGCACTCACCTGGTGGCGGCCGCCCGGGCAGGTACCAGAGAT  
TCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGCCCTG  
ATCTCTGAACTAACAACCAGAAAGAAGTGGCAGCATGGACTTATCATT  
CAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATACTGCCAAATCG  
CTACACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCA  
ATAAGGTCCTACCCTACTACAGCTCCTACTACTGGATTGGGATCCGAAAG  
AACATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTCACCAACGA  
GGCTGAGAACTGGGCTGATAATGAACCTAACAAACAAAAGGAACAACGAGG  
ACTGCGTGGAGATATACATCAAGAGTCCGTCAGCCCTGGCAAGTGGAAAT  
GATGAGCACTGCTTGAAGAAAAAGCACGCATTGTGTTACACAGCCTNCTG  
CCAGGATATGTCCTGCAGCAAACAAGGAGAGTGCCTCGAGACCATCGGGA  
ACTACACCTGCTCCTGTTACCCTGGATTCTATGGGCCAGAATGTGAATAC  
GTGAGAGAGTGTGGAGAACTTGAGCNTCCTAACACGTGCTCATGAACCTG  
AGCCAACCTCTTGGAACTTCTNCTTTAACTCGCAGTGGAGCTTTCAGTG

Table 2

CACTTGACGGTACCTTGCGGNTCTAAGACTAAGT

&gt;Sequence 188

GGAGGATGTGCANNNTTNTTTTTGAANANGCGACTCCACCGCGGTGGCGGC  
CGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTAACACAGGTGT  
CAGATGCATCACAAAAGCAGAAGTGCCCTTTCAGCTCTTCTCTGTGCCAT  
TCCTTGTCATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAACAG  
CCATGATGTCANCTCGAAGTGNTCTCTGTGATTGACAGAGAGGGACACGT  
CGTAGTCAAGAGGTGTGCTCCTCAGAAGAATATCAGAACTCAACTCGCTG  
TGCTCCAAGGGGCTCAATCCCCTTGATTTGAGGGGAGGGATGNAAATATT  
CTCTGCATGAAGAGAGCNAGCGGATGGGAAGTGATACTAGGTATGTAAAG  
GATGGTCAGTTACCTCTAAATGTAAAGTTAGACCAGGACAGCCAGAATCAC  
CGAAGGTCTTGTTAAGGTCCCTCTGTAACAAGGCCGTAGAAGGCCCAGA  
AATGTNGGTGACAGCGAGACACNATTTCTTAAACTCTTACANCTTGTGT  
AAATGAGTAAGAAAGGTGACANTTTGTTTTGAAAAATCCCCCTCCCCAGC  
CCTTTTGTTCCTCAAGAACTCAGTTATTCAATTTTCTGGTGCCCTAA  
CATACAGTAGTTCCTTAAGATAAAACACTACCTACTTGCAACAAAATCA  
TNAGAAGTGCCAGGCCATTACCAAGATGGGTTACCATAAGAATTAAAAA  
AATATTATTGCAAAAAAATAAAGGTTCTAAAAGTTAAAAAATGGGATTA  
AGATGGTAACTCTTACCTAATTCCTAAAAATGGCTTGTTATTAACCGAA  
CCGGCTTGGTACAAAACACCGTGGTTTTAATCTACCCGGAACCTTGGTC  
TTAACTTCCCTCCTCCCTGACAATCTTAAATACCT

&gt;Sequence 189

CCGGGCAGGTACGCGNGAAGGAAAGCAGCTGCAAACTTCCCATCTGCAG  
TGTTTGTGTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATG  
AATTCCTCAGTGGAAATATCAACAAGACTCAGCCCACCTGCACCCAGGTG  
ATTAATAAGCTTTATTGCTCACACAAAGCCTGTTGGTGGTCTCTTCACA  
TGGACGCGCGCGACATTTGGTGCCCTGACTTGGATCAGGGGACCTCCCTT  
GGGAGATCAATCCCCTGTCTCCTGCTCTTTGCTCCGTGAGAAAGATCCA  
CCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATCTCACCAA  
TTTTTAATCAAGAATATTCTGTGAAAAAGACTAAGATATCAGAGAAATTA  
TTAGTGCACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAA  
AAGACTCTTGCTTTGAGAAGACACAAAGAAATCACATCATCTTATTGGGA  
TTACTGGCTAGCCATATGCAGAAGATTGAAGCTGGTCCCCTTCTTACACC  
ATATACAAAAAGCAGCACAAAGATGGATTACTTAAATGTAAAACCCAAAAC  
TATAAAAACCCCTGGAGGACAATCTATGCAATACCATTCTGGACATATGA  
AAAAGCAAAGGATTTCTGTGCAAAACACCAAAGTTATTTGAACCAAAGC  
CAAAAATTGACTGGTGGGATCTAATTAACGTGAGAACTTCTTGACAGCC  
AAAGGAAATTGCGGCCGAGTAAATAGACCATCTTAATAATGGGAGAAAAAT  
ATTTGCAAACTATGCTATCTTCAAGGGCTTATTTTAGCCTTTATAAGGT  
TGTTTCCAAATTCCT

&gt;Sequence 190

TGAATGATCTGATCGCGGGGCGGCGCCCGGGCAGGTGCCATCGCCGTCC  
CATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGGTGG  
AGAGACTCGGGATGACTCTGCTCAGATTACAGCCTTGCTCAGGAAAGGG  
GAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAAC  
TTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAA  
ATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGGA  
AAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTGCCCAGGACC  
TGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACG  
AGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAAGCAGTCCAG  
ATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTGA  
TTGATAGTCAGGAACCTTCCAAAGTCAGCCGTGAATCCACAGCCATGAAT  
TTCACAGCCATGAAGAAATGCTGGTTGTAGACCCCAAAGTAAGGAAGAGG  
ATAACACCTTGATTTTCTATTN

&gt;Sequence 191

TGGAAGTGATCTAATCCCTCTACCGGGAGGCAGACGCCCGGGCAGGTAC

Table 2

TCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTCCCAG  
GGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTTCAAGATTGGGGGATGCT  
GGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTG  
TTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTTCGTA  
TAAGGTCCTTTTGGAGGTTTATTATTTCTTGTCCATATACTTGATGCTC  
TTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGG  
CCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCTGGAA  
CCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACA  
AGGATTTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAAGTTT  
CGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACACGAAGTCCAAGCGG  
TTTGCTTCTNCCGCGTACCT

>Sequence 192

GAATGATGAAGCCCTCTACCGGGTGGCGGCCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTCTGGCTTGAAATACAGCTGAAATAACTG  
AATTTTCTACTTGAAACGTGTGTGCCTCTCCACTGAGGGGCCAAGGCCCT  
GGAAATGTAAAGGGCCAATCTTTGTACAGAGGGGTTTATTGCAGTGAAG  
GGCGGGTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGCGTA  
CCT

>Sequence 193

ACTGTACAGATCTAGTACTTTATCATACTTAATACGTGTGTATGTTTCAA  
CAACGATTATCTGTATACAATTCTATAATTTATATAGAATATCTTATAAT  
GGTTTGTATAATTACGTTTTATTTAAATTTACANNTANNATGGGGCGTTG  
AATTAGATGCGCCTATCGGGNGGCGCGGAGGTACGCGGGGGCTGTAGTG  
GCTTCGTCTTCGGTTTTTCTCTTCTTCGCTAACGCCTCCCGGCTCTCGT  
TAGCCTCCCGC

>Sequence 194

CGCGCATCTTGTGTCTATAGTTAAATCATCATCTCTGAGATCACTATTAA  
TTGTACCGTATTTCGAATTTCTTCAGATGATGATTGAACAATAGCTTATG  
TGATATCATGTACGTCTGTTCCTTTCTCAANCCNTTGGGCNAGATGATTT  
GGGAGACNCTCTCCGCGGAGGCGGCCGAGCGGCAGCTACAACAACCGCG  
TCGCTCTCCGCTCAATTTCCAAGAGCCAGCTTTGAAGCCAAGTGCCCCCG  
CGTACCT

>Sequence 195

AGGACGATGGTCGNANNTGCAGCNTTACCGCGGTGGCGGCCGGTGTGCTG  
TGCTCAGCTGCCTTCCAAAGGAGGAACAGATCGGCAAGTGCTCGACGCGT  
GGCCGAAAAATGCTGCCGAAGAAAGAAATAAAAAACCCTGAAACATGACGAG  
AGTGTGTGAAAGTGTGGAATGCC

>Sequence 196

TGGATGATGCGCTCACCGCGGGGCGGCCGAGGTACTTTGAGCTCATAAGC  
TGGTATAAAATATCAAACATTTTGACTGTTTAAACAACCTCAAGATATGTT  
TTGCAAAATTACAAAACATTATACAGGTGACTTAATTAATATCTACTCCA  
ATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAACACTT  
AGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTG  
TAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTT  
GATATTTAATTAAGGGATGATGAA

>Sequence 197

TTCTATCGTATGTATATATCTATACATGTCTTATCTATGTGTCTATCTTT  
TATTTGTTTTTGCATCTATATTTTAAATGCGTGTATATATCTATNT  
ATTTTGGTGTATGCGTTCTCGNGTGGCGGCCGATGTACCTGCCTCACAGT  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAGCTCAGTGTCCCATTGT  
GGAGCGCCTCACTAACTCCATGATGATGCA

>Sequence 198

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTTCGTCTCTCATGTCAGCCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGTACCT



Table 2

quence 199

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGC  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTGACCTAGGGCTGGG  
CAGTTTGTGAGGACTTATCTGTTGTACCT

quence 200

AAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGG  
TTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCT  
AGCATATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCC  
JTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGG  
C

quence 201

GTCGTTGTTCTACTAAGTATATTACGTGTTCTTAATCTAGTATTATAC  
JTTTCTAATATACTCTCAATCTTATTTTGTATATTATAATATTTGTT  
JATATTATTACATATCCAATANATCNATTATATGGTAGTTGTGCGG  
JGCGGCCGAGGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCTCAACA  
TCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGG  
AAGGACAGATGAAGCT

quence 202

ACTGTGTTTATCTATTTTCATGTATCTGTAATTCTATTTATCTATCTAT  
AATCTTTTTTATCTTTATTTCTATTTTATCATATATTGTTTTATATAT  
NCNNTTGGCTTTGTCTTTGGCGCTCTGGCTGCCGTGGTACTTGGGGCA  
GAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAAGATGACGA  
JGGGAGAAAGTGCAGGAAAGAAAGAAATTAGTCTGACTGGCTTTCTGT  
JGCACCATTTGATTCAATGGAGACTGGCGGGAGGAAATGGAAGACTAGG  
JGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAGGCAGACAA  
AATGCGTTCCATTTATAACAAGTAATATATATCAAAGACTTAAAGGAG  
JAAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAGGAAGATCA  
GTTCCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGCAAAGACCA  
ATGGTACCTGCCCG

quence 203

JTTCTGTTTCAATTTTCTCATAATGGATCTATTTATTGTACTGTTTAT  
JTTCTATTTATTTTCTAAATTATTTATTATTTTATATATATTAATT  
ATNTNCCNCTTNTTGGTGTTGCAGTNACCGNGTTGGCGGCCGCCGGG  
GGTACGCGGGGAAGTCTTTCTTTCTCGTTCCCGGCCATCTTAGCGG  
JCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGTGGCC  
AAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAAC  
TTATGAAAAGTGGGAAGTACCT

quence 204

GATGTAGTTGATGCGCTCACCGCGGTGGCGGCCGAAAACCTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCTGATGGGATCCTCAATGCCAACCCCATGAA  
CCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
GTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
GAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGAAGTGA  
ACCT

quence 205

ATGTGNTTTTGAAGCCTCTACCGGGTGGCGGCCGAAAACCTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCTGATGGGATCCTCAATGCCAACCCCATGAA

Tabl 2

GCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
AGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
AAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGAAGTGTGA  
GTACCT

>Sequence 206

GGCGATGGATTGATGCGCTCTCCGCGGTGGCGGCCGAGGTAAGTCAAGTC  
ACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCCA  
AATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTCAAGTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCT  
TCAATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTG  
GCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 207

TGGATGATGAATTGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACATG  
GTTCTTCCTAGAAAGTGGTTCTTCCTTAATGTGTTTCTTTTTACCCCTTT  
TCTTCTTCTTCTTCAAGATGTTTCTTCTTCTTCTGCCACTTTTTCTTCT  
TCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTAACA  
CTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTC  
TGTCATTCTCACTCAACTACCCAATGTTTGTGTTTGTGTTATTTTATAATTGG  
GAAGGTTCTCCAAGGCCTACCACTAAGTTTAAACGAATGATATAGATAGAG  
CTCAGAGCAATCTTCTCAGCATCATGAAGTCATGTATAAAAAATCAGGATT  
AAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTA  
TATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTTT  
AATCTACCTGCTGCAACCCTGAAAAATTGTATTACCTTGGTGAAGCTC  
CCTATCT

>Sequence 208

GGTGATGAATCCACGATCCCTCACCGCGGTGGCGGCCGCCCGGGCAGGAC  
ATGGTTCTTCCTAGAAAGTGGTTCTTCCTTAATGTGTTTCTTTTTACCCC  
TTTTCTTCTTCTTCTTCAAGATGTTTCTTCTTCTGCTGCCACTTTTTCT  
TCTTCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTA  
ACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTT  
TTCTGTCTTCTCATCAACTACCCAATGTTTGTGTTTGTGTTATTTTATAAT  
TGGGAAGGTTCTCCAAGGCCTACCACTAAGTTTAAACGAATGATATAGATA  
GAGCTCAGAGCAATCTTCTCAGCATCATGAAGTCATGTATAAAAAATCAGG  
ATTAAAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAA  
TTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGG  
TTTAATCTACCTGCTGCAACCCTGAAAAATTGTATTACCTTGGTGAAG  
CTTCTATCTATAAACTTAAGAATGTCTTATCTTACTGGACTGTTACTG  
ATTTAAAAAGAT

>Sequence 209

CATACTATATAATATTACGATATAATGATTATATCGATCTTCTAAACTTA  
ACTATGTATATAATTATAAAAAATAATTAATACTACGATGAGTATATCTTA  
TGATCAACTACCAAATTTCTGTATGATACGTATCTCCACCGCGGCGCGGA  
CGAGGTACACGACATAGGCACATGTGCAAACACAAAGAAGGTGGGCTGCT  
GCTTCTTTCTATCTGCCCCTAGACCAGGCTCCTTTGCTTACGTAAGATG  
GAGACTGTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGA  
AACAATTCCTCACTGCCTATAAACTGTAGTCACATGTGGGATAGTCAATA  
GAACATGAGAATCAGAACAACTTGGGCAAAATGGGTATGGCAAGAATGGGA  
ACACCACAACAGGACAGATGCCAACTCTCATTCTGCCAGGCCTTTTGGC  
ATATGGGTGCCTTCTGTGTCTTCTTCCACCTATTCCTTCAGTCTCAACA  
ATCTCTTTGACCCTGACCGGGCG

>Sequence 210

GGGATGTGATTTTCGCTCACCGCGGTGGCGGCCGAGGTAAGTCAAGTCACG  
CTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTA  
CGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCAAAT  
AAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTCAAGTTTCCA

Table 2

TATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCA  
ATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCC  
ATCTTTTTCTTGATCTGAGACAGTCTGATCAGTTTT  
>Sequence 211  
TGGGCTATGATGTCGCTCACCGCGGTGGCGGCCGAGGTA CTACAGTCAC  
GCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCT  
ACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCCAAA  
TAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTC  
AATATAACCCCAAATG  
>Sequence 212  
CAGTCTACATCTAGTNTCTCTTTTCATNATCTTGTATAGATGTATAACT  
ATCATCCTTCTGTTACATATACCTTATTGCTGTATTATGGATATACATA  
TATCAATTTACATTAGTTAGAATTTTATGTCTATAAACAACCAAGACGAT  
GATTTTCGAGCCCTTCACCGCGGNGGCGGCCGCCGGGCAGGTA CTTTTA  
AATTTTTTTTTTCTGTAGAGACGAGGTCTTTCTATGCTGTTCAAGGCTGA  
ACTTCATGGGTTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCC  
TTGATACAGATAAAGCCCTCAGTGTGAAGCAGCTCTTATTTTCTTGTCT  
TTGAGATTGCTCTGGAATGGAAATTAGGCTTTTTTGAAGGTGTGACCCTT  
TTTGTTCACTTTCTTCAGCAGTTACTTTTTTAATTTTTAAATGTTTGACACA  
CAGTCTCTGATAAATGATCATTACCAATCACCGATTACTCTCCTTGCTC  
TGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGTATCC  
CATAACCACACACCCCAAAAAAAAAAATTTATGTCTGGTTCCAGGAGTT  
ACCTTTTATGAGAAGTCCATTTGTGAAGAACCTGGATGTTCAAGAACTT  
CCTGGGAAACACTGGAAGAAAATAAAGAGGCCGCCGGGGGGCTCATGC  
TTGGAATCCCCACACTTTGGGAGGCTTAGGTGGGCAAATAAACTGGGGTC  
AGGAGT  
>Sequence 213  
TCTCCCTCGTACTCGATCATCAGAGTATACATATGAGTGTACTCTANTAC  
TACTACGATCTCTATACTAAAGTTATCCTATTCACCTTAGTGCCATCTGG  
TTCTATATGAAACTCTAATATAATCATAGCGTGTATATATACTATAT  
ACATTACCATGGCGGTAGATTCTGAAGCCCTATCCGCGGAGGCGGCCGTTT  
GAGAAGCCAGCGCTCACCCACCCGGGTCTCTGTGCATTGACCTTTGGGT  
GCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCT  
>Sequence 214  
TGGCGATGTTTGATCGAGCTCACCGCGGTGGCGGCCGAGGTACATGCCTA  
CAGATAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACC  
CAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACTGCACTCCAGCC  
TGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGCA  
AAAAGAAACAGATGAAACCAATGTGAATAATTTATTTTAACACAATATAC  
CTAACATATTTTATTTCAATATCTAACAGTATAAAAAATTTACTTGTTT  
TGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAACAGAAGTAATACCTGAT  
TAATTAGAATTCCCAACCCTCATCAAGTGTGTGCTTATATAGAAGAAACC  
CAGTAAATGTTTGTGATTGAAAGATATTAATACTCTTGCTTGATGAGA  
GTGAGGAAAAAGGTATTAGTATTGGCTTTTCAACCGCCTGGACCTGCC  
CGGGCGGGCGCTCTAGACTAGGGGA  
>Sequence 215  
TTTTAATGTGCATCTCGCAGGGCGGNGGCGGCCGAGGTA CTTTGGAGTCC  
CCTGGTTTCTAAGAAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC  
GGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCTATGGAAGCCG  
CGAGCGTAGAGGTTCCGCGTGCTCTGCCGGA CTTGAGCAGGTCACTGGGT  
CCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTG  
CCACTTCTGCCCCGTTGTTTACAGGCTGTCTGGTACGAGATCTCCGACC  
AGTCTGGGGGCGCTGGCGCCTGCGCAGCCACCTCAAGATCACAGATTCT  
GCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGC  
CTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGAAGCAAGG

Table 2

GAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGA  
GTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACC  
ATTAGAGGTAGAGCTGCGACGCCTAGAAGACCTTTCAGAATCTATTGTTA  
ATGATCTTGCCTACATGAAGAAGAGAGAAGAGGAGATG

>Sequence 216

GGGTGTTGATAGATCGAGCTCCACCGGGTGGCGGCCGAGGTACTTTGGAG  
TCCCCTGGTTTCTAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGG  
CACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCATGGAAG  
CCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGACTGTGAGCAGGTCCT  
GGGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGC  
ATTGCCACTTCTGCCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCC  
GACAGTCTGGGGGCGCTGGCGGCCCTGCGCAGCCACCTCAAGATCACAGA  
TTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAAT  
TTGCCTTTACCCTGAAGATTATGACATGTTTGAAGTGTGTTTTGAGAGC  
AAGGGAACAGGGCGGATACCTGACCACTCGTGATCCTAGACATGAACATG  
GAGTGGAGGCGAAAAATTACGAA

>Sequence 217

TGNTNTACCGTGGACCTCACCGCGGNGCGGCCGAGGTACTATCAAACAA  
CATGATACAATTTAAATGTGTCATAGCAACTACTAGTGGTCACCTGAAAT  
CCATTTTCCCCTCCTTCACAGTAAGAGTTTGTAGCTGAATGAGTGGCCACT  
CATAGAGAGATTGCATTTCTGGCTTCCCTTGCCAGCCATAGGTAGCCATGG  
GACAAAGTTCTAACCCAGGGGGGGTCCAATCTTTTGGCTTCCCTGGGACA  
CACTGGAAGAAGAAGAATTGTCTTGGGCCACACATAAAATACACTGGCAT  
CAAGGATAGCTGATGAGCAAAAAAAAAAAAAAAAAAAGTACCTGCCC  
G

>Sequence 218

GGGGNATATGTGCGCTCCCGCGGTGGCGGCCGAGGTACCATCCTGTTCCA  
CAGAGCCATTGCCTATTCTAAATTGAATCCGACTGGGCGTGCCCTCCT  
CGGAACACAACAGTAGACCTTAATAGTGGAACATCGATGTGCCTCCCAA  
CATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTGAAGA  
TAGCTCCTGCCTCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCC  
AAGCATGCTGAGTTGGCCAATGAGTATGCTGGCTTTCTCATGGCTCTGGG  
TTTGAATGGGCACCTTACCAAGCTGGCGACTCTCAATATCCATGACTACT  
TGACCAAGGGCCATGAAATGACAAGCATTGGACTGCTACTTGGTGTCTCT  
GCTGCAAAACTAGGCACCATGGATATGTCTATTACTCGGCTTCTTAGCAT  
TCACATTCTGCTCTCTTACCCCCAACGTCCACAGAGCTGGATGTTCTC  
ACAATGTCCAAGTGGCTGCAGTGGTTGGCATTGGCCTTGCATATCAAGGG  
ACAGCTCACAGACATACTGCAGAAGTCCTGTTTGCTGAGAA

>Sequence 219

CACTACTCATCTCATATAACTCGATTTGATCATTATATACTAAATACTTCT  
CATTTTTTTTATTATTTTACTACCAAATCTTTATTTCTTATATAAAATAT  
TTAAAAATACNCANAGGGGGCGTTGGCTTGAGGCCCCCTCCGCGGNGGCG  
GCCGNTATTGGTGGTGAAGACCCGTAGCAACAGTGGGCATGTCTTCTCGC  
GGTCGATCGGTTTCTCTGGCTCCTTTTAA

>Sequence 220

GATATGTTGAACNNTTATAGAGACGCTTTCCGCGGTGGCGGCCGAGGTACC  
ATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTGCTGTT  
TGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGA  
TCTGGTAAGGTACAGCAGCAGTGGCCATGGAAAAAGAAAACTCTACAG  
CATATTTCCGAGGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTT  
CTGTCTCGGAAAAACCCAAAACCTTGTGATGCAGAATACACCAAAAAACCA  
GGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATG  
TCCATCTTGTGGATCACTGCAAAATACAAGTATCTGTTAATTTTCGAGGC  
GTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGT  
TTTCCATGTTGGTGTAGTGGCTAGAATTCTTCTATCCACAGCTGAAGC  
CATGGGTTCACTATATCCCAATCAAAACAGATCTCTCCAATGTCCAAGAG

Table 2

CTGTTACAATTTGTAAAAGCAAATGATGATGTAGCTCAAGAGATTGCTGA  
AAGGTGAAGCCAGTTTATTATGT

>Sequence 221

CATGCATCTCTCTNTGTCCATCACTATTTTGTAAATATCGATATTATAATG  
TCGATAAGTATCTNTTTGTGTATGTATTTTATACTGTCTATCGATCTATC  
TGTTATTATNTAATAACNANANCAGANTTGTGACCAATTTTCTGAGGCNC  
GTCGCCCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCT  
CCATTTCACTACTCTAACATTCTTCAATGTGGTTCAGCCACGCATAGTC  
ATATAGATACTACATATTCAAAGATAACTTACTGAAGCTTGTTACAGAA  
CCAAGCTTTCTCCTGATAGCTCTTCTCCCTACCCCGCACTTTTGGAAG  
TATTACCCCAAATGCTCTTCAAGGATTTAAATAACAATTTTAAAAAGACA  
CTAACACCACAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTA  
CTCCAGATGCTGTATTCAAAGTGTATGGGTCCGTTGAAAAATAGATATA  
ACCATTTTTCTCATAGACAGCATCTACTTTATCACCAATTCCTGGGAAGT  
CTTCTTCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCA  
TCATATCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCCTGTATC  
CTCAAAGTGAACAGCTGCACCTTATCTTCTTAACTTCTTTTGGAAGACCCA  
GTTTCAGATATTTTTTTGGGATAACCTTCCAAAATGTCATAACCATT

>Sequence 222

TCATCACTCACATTCAGTATCCTCTCATTGTTAGTCTAATTACAATCGTT  
CTAATATCACACTCGTATTTCAATAATATGTTATAACATGTTGACTTATGT  
TCTAGGAGATATCACTTATATTAATGCACTTAGTGGGGTTGATTTCGAGTC  
ACACTCCGCGGAGGCGGCGGAGGTACGCGGGGAGTGTAAGTATGGCCGGC  
CTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGCGCACACACCTGGAAG  
CAGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGA  
GATCTATTAGGATTTTATATCTTACTATGTTTCTCAGCAGTGATAGGGTTT  
TCTGTAGTGATGATGTCCATATGGCCATATCTCCAAAAGATTGATCCGAC  
AGCTGATACAAGTTTTTTGGGCTGGGTTATTGCTTCATATAGTCTTGGCC  
AAATGGTAGCTTCACCTATATTTGGTTTATGGTCTAATTATAGACCAAGA  
AAAGAGCCTCTTATTGTCTCCATCTTGATTTCCGTGGCAGCCAACCTGCCT  
CTATGCATATCTTCACATCCAGCTTCTCATAATAAATACTACATGCTGG  
TTGCTCGTGGATTGTTGGGAATTGGAGCAGTTTTTCAGAACTTGTTTACA  
TTCCTTGGAGAAAAAGTGTGACCTGGGATGTGATTAACTGCAGATAAAC  
ATGGTTCCACACCCGGTTACTTAGCGCCTTC

>Sequence 223

TGAGGTTGATTTCGACTCCGNGTGGCGGCCGAGTGATGCCATCTGCAGTT  
TTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATATCTTTAAT  
CCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCAC  
TGAGTTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTGGAACCTG  
AGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGA  
AAAAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGA  
TATACCAACTGATTGAGTATCTACAAAAAACTTGCGAGTAGAGGGTTTG  
TTTAGAGTACCT

>Sequence 224

TGGAATGTTGGACCTCTTCCAAGGCGCGGCCCGGGCAGGTACTCCCT  
GTAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCT  
AGAGACCGAGTGTCCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGT  
TCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTC  
CTCATTTCTGGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGA  
AGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCCAGAGGCTGGGCCCT  
GGACATGTACAGACTCTCATTTTATGATGTATCCTACTGCATCAGGACAT  
TTGTGTCAATGTCAGGTGACGAGGGGAAATGAAAGTGATGAGACGATGAG  
AGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTGTT  
ATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAA  
AAGATTTTGAAAGCAGGTGCTGTGGGCATCTGTATGGGGAATCGCACTCA

Table 2

TAGAATTATTTTCATTTGTAAATATTTGGTATCAGGCCAAGCAAGGGAAA  
GAAGCTTACTGTATTACCATCTTT

>Sequence 225

GGGCGATGATTGGTGCGCTCCCCGCGGTGGCGGCCGAGGTACTCACAGTC  
ACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTCTTGGCTT  
TACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGA  
TGATCGATAGATAAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG  
GTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCG  
CTTTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCAAGTCA  
CGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACT  
CTGTGGCGTAACCTTCTTCAATATAACCCCAA

>Sequence 226

TTGGAGCTCACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGATGGATA  
GCCGCTTGCAAGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTC  
GCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATTGGTGCCGTGTTAA  
TAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAGAGAAACTTGCAGGG  
CTTCCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTATCTGGATGAA  
GGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAACTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATT  
TTCCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAG  
GCTAATATCACTGACTGATGAAAATG

>Sequence 227

TGGTTGTTTCCNNTANNATTTGAAGCGCTCACCGCGGTGGCGGCCGCCCG  
GGCAGGTACGCAAAGTGATTCAGAGAACGCTGGGGCTCACAGGCGCTGTA  
GCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTTCAGAACAC  
AAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGT  
TACTAGCTCTGCGCATCACAGAGGGGGGCATGGTGTTCCACATGGGAAAT  
TGTTAAACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCTACAA  
ACTGCATTATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGA  
GATGGATAAAATG

>Sequence 228

GCATAGGAAAGACTTGCGTGTGGGAGGGGCGTGTCTTACACCTTAGGAA  
GAATCCTTAGCTGTACTTTCTGTCTCTCCTGGAGCTCCCTCCTACCCCC  
TAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTGGCAAAGTT  
CCTGCATATGCTGCGCAGTATGTGCCTTGAATAAAAAATCCTGAAGATTAG  
ATGGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTGAAGCTCA  
CCTGCCCCGGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATG  
TAGCTTTAAACAGTTACATATAACATGGAACAGTATGACATGAAAAGAG  
AGAGGTTTATAGAGGGAGAATGGAATTGGGACAGCCCCTGCTTACCGAGG  
TTGCCCCCTCCAGTCCTTGATTCTTTGGATCCCAACTTCCTGTTTGGCTG  
AAAACGGCTGGAGCTTGCTCCTTGCAATCTTGGCCTTACAAAACCTGGACT  
TCTGGCCCATCTTTTAATTTTGATTTTTTCTTAGGAACCCCGTTAAAGGT  
TTTGTGGGAG

>Sequence 229

TGATGATTGAGACCTCTCCGCGGGGCGGCCGAGGTACTACAGGATGATGG  
CTTCTCTCTCTGCGTACAGGCAGGGCCATGGAGTTGGGGAGAGAAT  
GTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATTTGGGTGAAG  
ACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCGGGCGG  
TCGAGCGGCCGCCCGGGCAGGTACTNNTTTTTTTTTTTTTTTTTTTTTTT  
TATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAACCTGTTACATTGGT  
CAGTTTTTACTTGTA AAAAGTATTATAGAAGAGTTTTATTGGAATGTTAT  
TTTATTAAGCCATTTTCATGGGTATTTTTTTTTTAAAGTTTAAGAAGTTT  
TTACAACAGGCTGGGGGGGGGGGGTTACACCTGGCAATCCAGCACTTTGG  
GAGGCCCCGGGCGGGCAAATACTGAGGTGGGAGGTTAAGAACCGGCCTG  
CCCAAATGGGGAAACCTTTGTTTTTTCTTTAAATCCCAATTAATTTCA  
AAATTTAGGTCCTTGGGCCGTTTAGAAACAGGGGATCCCCCGGCTTGAG

Table 2

GAATTCGATTTAAGCTTATTGAACCCGGACCTTGAGGGGGGGG

>Sequence 230

ACGAACTGTGGCTGCACCATCTGTCTTCATTTTCCCGCCATTGGAAGAGC  
AGTTGAAATCTGGAAGTGCCTTTGTTGGGTGCCTGCTGGATAACTTCTAT  
CCAGAAGGGCCAAAGACCCTT

>Sequence 231

TCGTTGTGTCTTCGGTCTCTTTGTGTCTTCTTATCTTTTCGTTCTTTTC  
TGTGTTCTCGTCTTTGTACTTTTTTTTCTATTTTCGTCTCACACTAGAAA  
ANNNTTTATGCTTTTATCAACTCCCCGCGGTGGCGGCCGAGGTACGACGT  
TTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCAATATGACCA  
TCTTCTGTATTCTGGAAGTACAAAGACGCGGCTTTTATCTTCACCT

>Sequence 232

TGCACTGAGTCGGAGCGCTACCCGCGGTGGCGGCCGCCCCGGGCAGGTACT  
TTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAAAAAAAAAAAAAGATAT  
TTTAATATATTTCAGATCCACAAATATGAAATAAACTAAGTAGAGCTGGT  
ATTCATTTACACATAATTATCTTATACCGTTTGAATAAGAATTTGGGGC  
ACGTTAGCAAACCAAAAGGCTCAAAAAGACGTGAGATATTTAGTTCTTG  
TCTCCCTCTCAAAATGTGAAGCACTCTTTTATCCGGCATTCTAGGGGAG  
TTCCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGCAATCTCAAAA  
AAAACATTTTACTAAAAACAGAGGAAAAAAATCTTATAACTTTGGGAGGC  
TGAGGCAGATGGATCACTGAGATCAGGAGTTTGAGACCAGCTTGCCCAAC  
ATGATGAAACCCCTTTTTTTTTTAAATTCAAAAGGTTTCTTGGTTGT  
GGTGGCAGGGGCTGGAGTCCCAGCTTTTCCAAAGGCTTAGGGAGGAGAA  
TACTTGAACCTTTGAGGCGGGGTTGCAATGAGTTTAAATCTCCCCTAT  
TGACTCCAACCTGGGAACAAGGGGAGACTTTGTTTTCAAAAATAATTTAA  
AAATTAAACTTGTT

>Sequence 233

TGTCCCCTCCCGCTCCACACTTACAACCTTCTACATTTCCGTCTCTCGTTC  
TCTTGTGTTTTTCGTGTTGTATTTTCTTGGTTGCTCATTGTTGTTCCCA  
TNAATNANNNCANTAGCGTTTTTCGGCTCCCCGNGGNGGCGGCCGCCCGG  
GCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAACGGAGAGAC  
TCAAGATGATTCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATT  
GTTAACCTATATAAACGCCAACCAATCATTATGACAAGATCTTGGCTCATAG  
TCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACAGA  
TTTTGGGCACAAAAAGAAATACTTCAGCACTTGTAAGAACTGGTATAAA  
AAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGTTGCCCTGG  
TTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGCCATTG  
ACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACCACAACGCAACGC  
TATTCTGACGCCTCAAAACTGAGGGAGGAGATCGAGGGAAAGGGAATCCT  
TACTTACTTTGGACCGAGTATGAGGCTTGGG

>Sequence 234

TTCTCGTGTCTCTCGTACATATANTCCATCTTTATAAAATTCTCTCTGTTA  
TCCTACCCTCTTCAAGTTCATCTATTATAAGTTGATCGTATTATTGTCTA  
TATACGATATTTTTACATATTACTATCTCNCNNCTCACAGCTAGTTGGA  
NCCATTTAGAGTCTCTTCGCGGAGGCGGCCGCCCGGGCAGGTACAGTAT  
AGGTTGGTTTTGCCTGTTTTGACGCTTTATATATACGTAGACACACATAC  
ACATGTATATATACACACACACATTTTACATATATATGAAACTGTATA  
ATGTGTTTCGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAA  
TTCTGTATATCGTATATGGGATTAAATTTGTTTGCCTAGTTTTTGCCTT  
CTCATTGCTTCTGAATTGGGGCAGCTTTGCCCCCTCAAGGGAAATTTAGCA  
ATGTCTGGAGACATTTTTTATTTTTCATAATTTGGAGGGACATGGGGGAGG  
TGTGCTACAGAACTTAGTAGGTAGAGGACAGGGTTAGTGCTGAACGTTCC  
ACAGTACCT

>Sequence 235

TCTTTCATTTTCTTGTATTCTCAATACATTCGTTGTATGTGTGAGTTT  
CTCTTCTCTTCGTCTTGAGTTATGTTGTTATTGATCGACTGTGCGTGATC

Table 2

GGTTTCTTTTCTATGTAAACGGCCACNNCANNNTTTCTTTGTTGAGTGA  
CCGCGGNGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
AATAATTTTGTCAATTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCT  
GGTCTCAAACCTCTAGGCTCAACTGATCCTCCTACCTCCACCTTTGCCTC  
CCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAAACGTT  
AACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAAC

>Sequence 236

GCGAAACTAACCAGTGCTCCCTACACGCTGCTTTCGCGCTCCCATTCCTC  
CCACTCTTAGCTCGTTGCATATCCGACGATACTCTTTGGCGGTTTTTGCT  
TNCNCNTATTTTGTGGGACGCGTGGCCGAGCGGCGGCCGCCCGGGCAGGT  
ACCTACGCCACAGACAGCCAGAGGGAAGCGACCCAGACAGCAGCCCCCTC  
CTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTG  
GCAGCCATTGCAGCTCCAAACTGCAGAGGCAAGGCCAATTTAACTTTTC  
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCA  
TATATGTATTTTGAATCAGTTCTTATAAACAGCTCGATTCACTTTAG  
CTAAATTTATAGTCTAGGTAGTATGTTACATTTGAACTTTTGTCTTAAGA  
AAAGTTGACTGTTCAAGATATTTTCTACTGTAAAGAAATATACTTTCTA  
TTAAAGATCTGTACCT

>Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATC  
TTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC  
GGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
AAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAAACTTGCGAGTAGAG  
GGTTTGTTTAGAGTACCT

>Sequence 238

GGCTATGATCAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGT  
GCAAAATCAGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGA  
CAATGGCAGCCCAATACGGGAGTATGAGCTTCAACCCCAGCACACCAGGG  
GCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAAT  
TGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCA  
TCCTTGGCCGGAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACC  
AAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGT  
AGTTGACACACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGT  
CCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCCAGGGCCTTATGCT  
CTGGCTTTGGTGGTTCCACTGGGCCGGTTCCTGAGGAAGAGCACCAAGC  
CCCAGAGAAGATCTTGAAATGTTTGAGAGAGGACTTGAAGTTTCT

>Sequence 239

CTCTTGTTCTTCTCCCCATTTTGACTCCTAAACCACCTCTCTGCATAACT  
TCCATTGCTTCTTTATCATCCTAATTCTTCTACTCTTCTGCTCTTATTC  
TTTCCCCNNNCANTTGCGTTGTTGACTCCCCGCGGTGGCGGCCGAGGT  
ACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAACACCCAAATA  
CAATTAGCACTTCTCTGCTGGTATTCCCTGGGCCGTCTTAATTATCTAGA  
GGCCAGGAGGCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTGC  
TGATTAATTCAGTTTCTTAAGTGGCAGAGCAGGTATCATGATCTAA  
TTCACACTATTAATACACTGTCTTGCTGAAGAGTCTGACCTGCCAGAAC  
CCCGTTATGGCTAGCCCAGGGAAGCAGTAAACTGCAAAGCAGAGAAAAGG  
GGCAGCTAAGATGAGGCTAGTGCTGGCTGAGTCCAGTTAGGTCTGTTAC  
TGTTCTGTTCCAATATAAATCCAGGATGACTGTTACTCAGATTCAAGTGC  
TATGTAGAAAATAGAATGCACAGCCAAAAACATAATTTGGGGATGACTGG  
CAGCACCTTTTTTCCCTTTCTTAAGAGGCTAACTG

>Sequence 240

TCATTTTCATGAAATTTTATTCATATTATTTTTCATAAACTCCATAGTTCT  
TTCTATGTCTACTAGTTTTATATTATCTATTTCAACTTCTTATTTCTT



Table 2

AAAAAATATNANTTGGCGTCTGGCGCCCTCACCGGGGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTGGTATGACTATGAAGGCTAGTGGTCTTTTTAT  
TAGCTATCAAGTTCATTTAACAGACAAAAAATTCAGTTCAATGGGGGCAT  
TAAATAGGAAGAATTAACAATAGTTCATTAATCAATCTTTCAGCTGTTCT  
CTATTTTATCACAATAACTTTTCCTATAATTGAGAGATCCATGAGGAAGT  
CTTGAAGAAGAACGTATGTTTCTTTCAATTCCATAAAACATTCAGCCAAAA  
TAATAAAGAGGGCGCTATTACTTTGTTTTGGGTGAATGATATGCAGGCTA  
GGCTTTGCTGTAGTACCT

>Sequence 241

GCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGA  
TCGGCAAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAA  
AAACCCTGAAACATGACGAGAGTGTTGTAAAGTGTTGAAATGCCTTCTTA  
AAGTTTATAAAAGTAAATCAAATTACATTTTTTTTCCAAAAA  
AAAAAGTACCT

>Sequence 242

GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAG  
AGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGAC

>Sequence 243

TGGGCCCTTTGCCTCACCGCGGGGCGGCCGAGGTACGCGGGGTGCTGGGA  
TTACAGGCACGAGCCAGTGCGCCCAGCTGCCTCTGTTTCTTTATTAGCT  
GTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGC  
CACACACTTTTTGAACTGGCCCGGTCAGGGGGGACATAACCATTTCTGT  
GCCACCCCATCAATCCCCACCTATTCTGAGTGTAGGCTCCTCCCTGCTT  
GAGTAATGGCCACAGATCTTGGCTCGGCACTCCTAAGCTGCATGTTGAAT  
TCCTGGGACAACAAGACTGGCTTGTGGTTCCATTCTCCAGATCCTTGGGT  
TGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAA  
AGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTA  
ATGAAGTAATAAATTCTCCCAAAGGGAAAAAACGCAAGGTAGAACATCAG  
ACAGCTTGTGCTTGTAGTTCTCAATGCACGCAAGGATCTGAANAGTGTTCT  
TCAGAAGACTACTAGAAGAGACGAAACGAACCCTGTGGCTGTAACTTTTG  
AGTGAAAAGACAAAAATGGCTCTTCGTGGTCCCAAAAAAG

>Sequence 244

GTCTTTTATAGTAGGGATAAGGTTTCACCATGTTGGCCAGCTGGTCTTTAA  
CTCCTGACCTCGAGGGATCCACCCACCTCGGCCCTCCAGTGTGCTGGGAT  
TACAGGCATGAGCCACGGCACCCGGCCCTGGTTTGCTTTCTGAACCATGT  
CAATACAGTACCACCACAGTTGCTATCTCTGAACATCTTTCATTAAAC  
ATCACCGTCTAGTTTGAGAACTTTTAAAGCCTGCTGGCCTCCTTTGGGG  
CATCTTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGT  
AAGCTTTTAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGA  
GTGAACGACAGGGGTGGGCTCCACTTTATCCAGTGCCTCGGAAGCCGGA  
GGCCCCCACCACAAAAGAGCAAGGGGAACCCTCGCCCTCAACAAGGCCTG  
CATCTCCGGAAGTGGAGCTCAAGTATAGCCAGCGAGTGTCAAGAAACGAA  
ATTCTTCAGGGTGGCGGAATCAAGCCCAAGTCCCATGTTTACTGACCGGG

>Sequence 245

GGGCGATTAGCCCCTGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACAA  
TTGCTTGAGTGAGTTCATGGTCCGTAGGAGGATGACCACTAGCCCACCAC  
CTTCCACTGTTTCTACAGTCTTGGCCAGCAAGTTTGGAGTTAAGGCTTCA  
AAATCCTGCAGCACACACATGCCGAAGGTATTGCCAGGATCTTGTGGGT  
CTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAA  
AGGGGTCTGCTGCTTTATGTTTCAGTGTTCCATTCTTTATTTTCTTCTGC  
AGCTGTCTGATTCTTTTCTTTCGGTGACTGCTAAACCCCAACTTTTTTT  
TATACACCCCAAAACACTTGAAGGGCGGACCCCTTACAAAGTGGCTTTTG  
GAATAACCCCGGGAAGGAAAAATTTTTTCCCCCGGGGTCTTTTTCTTT

GAACCCCCCAATTTCCACAAAAGAGGGAGATTTTTTGGCGGTAACTTA  
CTCCATTTTTTAATGGGAAAATCCGGTTTTGGTTTTTCCCTTTTTTCCG  
GGGGCAGGGGAAAAAATTTTTTTGGCCCCAGCCCCGGGGGTCN

>Sequence 246

CGTCTCGTTACACCTCGTCGACTTGCGTTCTGTATGTTACTTATTATTAT  
ATTTGTTACTATGTTTATAACTATCTATCTTTTCAGTCCATCATAATAATT  
TGCTTTACCATGTGTATAGTAGTTTAGGTAATCTTTTGCTACNNANTCNN  
GCNANTTGGGGTTGTATGTCAGCCTNTCTCGGGTGGCGGTCGTGGGGATC  
AGCGTAGGTGAGCTGTGGCCTTTTGCGAGGTGCTGCAGCCATAGCTACGT  
GCGTTTCGCTACGAGGATTGAGCGTCTCCACCCATCTTCTGCGCGGGACCA  
TCTACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAG  
AATATAAAGAATAGTTCTGTCCCAAGAAGAACTCTGAAGATGATTCAGCC  
TTCTGCATCTGGATCTCTTGTGGAAGAGAAAATGAGCTGTCCGCAGGCT  
TGTCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGC  
CCTGGGGTTATTGTCCCAAAAAAAAAAAAAAAAAAAAAAGTACCT

>Sequence 247

GCTCTAAGCTATAACGTACTAATATTTGATCTATTCATATACATTATCAA  
TCACTAATACACACATCAATATACTTACGTATAATACACTATCTTAGTTC  
TCTAATATAATTATNANTNTANTTTGGCGTTTGGCTTCTCCCCGCGGGNGG  
CGGCCGAGGTACTCCCCAGCAAATATGCTTGGTGGGCTTGCTTGACTAGA  
TGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCAATTGTTTGTCTG  
AAGAACGGGGATCTGTCGCTCGCCCTGAGCACTGTATTTATCCCTTAC  
TCAGTCCCAGGGACTTCTCCAGTAGCGACAACCTCTGCGGCCGCCCATC  
TTC

>Sequence 248

TGCCGCGTATATGCANCTTCCCGCGGTGGCGGCCGAGGTACTTNNTTTTT  
TTTACAGAGA  
CGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAGAAAAA  
CCAAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGGTCTCGCAGCCA  
TAATGAACATCACATAATGAAGTTACTCCTTTCCAGATCTATAAACAGGC  
TCATGTAATACTGATACTCAGTAAAAGGGTCCATAATCCAAATTTATA  
TAACAAATGGGGCTTGCTATAAAATCTCTTACATTTTAATACTTACTCTT  
AATAAATCATCTATTCTTCCCTCCTTCTTCTCTAAGGCAGAATTCCTACT  
GTTTTCTAGGGCAGATATTTTTTCTATTGTGAGGTCGGACTGGGTCTGTC  
TGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTGTGTTG  
CCAGATCCCGTAAATGAGGGACTGTTTTGCTGAGCTGAACAAAAGTGAAG  
CAGG

>Sequence 249

GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGG  
AGTGTGAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAAC  
CCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCA  
TCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTA  
AAGCCAAGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGT  
GACTGTGAGTACCT

>Sequence 250

GGTNTCGTATGCTTATCGCGGGCGGCCGGAGTGATGCCATCTGCAGTTTT  
GTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCATTATCTTTAATCC  
GGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAACCTGAG  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACAAAAAATTGCGAGTAGAGGGTTTGT

Table 2

TAGAGTACCT

&gt;Sequence 251

TTATCTCCACATTGATTTCTCAATAAACATTTTCTTTTCGATCAAGAATT  
ATTCTAGTATAATATATATTTTTTGGCTTCCGTTGTTATTTTATCACACA  
CAAAAAAATAAATGGGTGTTGTCTCGATAACCTNTCCGCGNGGGCGGCCG  
AGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGC  
GTCTACCCGGGAATCCGGGGTCCCTGACCGA

&gt;Sequence 252

GGGGNACGTTGCTTGATCGCNGGGCGGCCGAGGTACATTTTACTACGCAC  
CCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTGTGCGTGACATGC  
ACACACACAAATGGGTGAAACAATTCTCACCATAACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCCAGGTGATGCTGACACTG  
CTGGCTCATGGAACCACTGCTGTAGTATTTTCCAAATTATCCTGATTCTA  
AGAACCACCTATGACCTGTGCTGTTTTTCTGTGGTACTGGCTCATGTC  
ACATAAATCTTTTAGGATTCAAACATGTTTGTGATATTACTCAGTATTT  
ACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACCACAGGTATATC  
ATAACAAAAAGAACATGAGTTACCATTTTACAAAGTTCAGATATATTTA  
AATTAGCCTATTTAATCTTTTTTTGGGTGGTGTGAAATGGAGTCTCACT  
CTGTCTCTCAGGCTGGAGTACGTGCTGGTTTAATTGTCCAAGGCGGGTCT  
GGACCAGACAACTTTTGTAAGGGCTGGGCCGTGCTTTGGTGGTTGGAGT  
CGGTCTCCTTTGGCCCTTTTTTGGTGGCCGGAATCGTGGCTGGCTGATTC  
AACAGTTCAAAAGGAAATTTGGTGGTTAGAACGGCC

&gt;Sequence 253

TTTCTTCGCGCCCGTGTCTTTTGCCCTTCAAATTTTATTTTCTCTGCTT  
ACAGCTTTTTTTTACATAATACATAATTTTATTTTTTCGAATAATTTTC  
TACCCACAAAAAAATTTGANNAGGTTGCTTGTAGCGCNTCTCGNNGNG  
CGGCCGCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC  
CTATTTTCAGATTTATTAAAAAACACATAGGTAACGAGTCAGAGCTTTGGC  
TAGGAATGAGTTGGAAAAGAACTGAAGGCATAATTCCACAGGACATTCAC  
AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTTAGAAGCATT  
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGCTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTGCGCTCCGGAGGGCAATGATCTTGATCTTCATGGTGCT  
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTCGGGCGGCAATGCCAGGGT  
ACCTG

&gt;Sequence 254

TGTATATAGATAGAGCTCACCGCGGTGGCGGACGAGGTACTCATGGTTGC  
TGTAATCTGGCCGCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATG  
AGATCTGGCTATTCTGTCTTGTGGATGGTCAGTCCCCGCGTACCTGCCCC  
GG

&gt;Sequence 255

GTNTAATCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGT  
GTGCAAAATCAGAGGGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGC  
GACAATGGCAGCCCAATACGGCAGTATGAGCTTCAACCCCAGCACACCAG  
GGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTTCCAATTGAGA  
ATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAG  
CATCCTTGCCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTA  
CCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTC  
GTAGTTGACACACCAGGCATTTTCGACACAAGAGGTGCCCAATGCTGAAA  
CGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCAGGGCCTCATG  
CTCTGTTCTGGGTGGTTCCACGGGGCCGTTACACTGAGGGAGAGCACAAA  
GCCACGANNAGATCTGAAAATGTTTGGG

&gt;Sequence 256

GCCCCAGATTCAATCTGTGGTGACGGTCGGATACGATGAGGGACTACACC  
GCACACCACCACTTCTGTTAATGTTTTGAATCTAAACGTTGAGGTGGGG  
CTNCACCATGTTGCCAGACTGGTTTTGAACTCCTGAGCTTAAGCAATCC

Table 2

ACCTGCCTCGGCCTCCCAAAGTGTTGGGATCACAGGCGTGAGCCACCGCA  
TCCGGCCTCATGTTCTTTTTTCATTAAGAGAGAAATCAACTATTCAGGAC  
CGGCCCCACCTTTCCTCAGGAGTCATTTCTGTTCCGCACAGGCCTGCTG  
AACTGGGTGCTTTATATAGGGAAAGTGGGCCTCATTTTTTGGTCCCTGTC  
CTCAAGCCTTAGGGGGCAAAAAAACCTCCAAATTGAAAAGGGTTTTTTT  
TTTTAAATCGGGAGGGGGGCCCCCTCTTTGTGTCGGCGATTCGGGGAA  
AAAAAAAAAAAAAAAAAAAAACCCCCCCCCCGCGCGCCTTAAAAAAA  
AGAAACCCCCCCCCGCGGGGGGATTTTTTATATTTTTTTTTTACCCCC

>Sequence 257

GGAGATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTGACTTGCA  
GGCCACAAGACCGGCCTTGCGAGCGTCGTTGGCTGATGGGAGTAGAAGCC  
ACAGAGAGTCTTCTCTTGGAGGTACAGTCAATTCTGAGGTTTGGGCGTC  
ATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGAATATTCTC  
TATCTTCTTCACCAACGAGTAAGACGTTTTTGAATAATGGGACTTTACAA  
AGGCCTTGAAGCCAAATTGGTTGAAAAAGGCCCTAACTGGTGGTTTAAA  
AGGGTCCTTGGTTATGAAAAAATGAACAGTGCCCCCTTCAATTTTTG  
GGGGTTAAAGGGGGGCCCCAAACATTGGAAACCCCTTCCCAAAGAAAAAT  
TCTCCAAAAATTTTCTAAAGGGGGGGTTCTTCTCTGGTAAAGAAA  
AAGAGAAAAAATCTCCTTAATATATTGTGTGTTTCTCGCCCCAAAAAAG  
ATACCCCCCTTGTGTGAAAAAAGAAAAACAGGGGGGGCCCCGGGGGG  
GGGGTGTCAAAAAAACCCCTGTACACCAAAATTTTATCTCCTCCTGG  
TGGGGAAAACCGGGGGGGCTGATATATAAT

>Sequence 258

TTAGTCGTTTTGAGGCCCGGTGGCGGTCGGGTACACGGGCCACGTGACCG  
ACGCCAACATTGCGGCGCCAGTTGCGTCCACCTGCTTGTCCGCAGAGGT  
TCTCATAGAATTTTCTTCCACCACTCAATCATATCTACTTACACAAGCA  
GTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATA  
TTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTTCAGCTCATCCGGTT  
CCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCATTGTACCTGC  
CCG

>Sequence 259

ATGTTATATTCTGCTAATAGCTACATTGAGTCGAATCGTATTATGTTTCGT  
ATCTCTTTTATTTATGTATTTATTACATGTATCTATCGTATCTGATTACG  
ATACGATTACGTTTTATCTATCTCTTCNTAATGGTGTATGCCACCGCG  
GTGGCGGCCGGCGGGAGGC

>Sequence 260

GCTCGTTATGTCGTTACTATCTGTGTCTGCATCGTATCGCATTCTCATCT  
ATTATTATTCTATTCTCTTGTATCTG

>Sequence 261

TCTATATATCTATCGTTCCTATATATTAATTATTTATTCTTTGTA CTGTT  
TATCGAATGACTTTAATATTTCTATCTCTTTAATCTATACATCTGTTTCT  
CTTTATATATAGGTAGCGCGTG

>Sequence 262

TTACTCCACACTCTACTCATTTTCTTCATTTCAATTTCTGTACTCGTTTTA  
ATAGTATTTACTTATTGTTCTATGTTATGTTATCATCATTATATCATATA  
ATATCTGTTTGATTCAACACCCATTANTTTATTTATTTATGTTGTAG  
CCGGGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGA  
CGACATGGAAGAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTG  
CCCTGAAGAGCATCCCAACCCTGCTCACGGAGGCACCCCTGAACCCCAAG  
GCCAACCGGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCC  
AGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTATGCCTCTGGAC  
GCACAACTGGCATCGTGCTGGACTCTGGAGATGGTGTACCCACAATGTC  
CCCATCTATTAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCT  
GGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTG  
GCTATTCTTCGTTACTACTGCTGAGCGTGAGATTGGTTCGGGACATCAAG  
GAAAACTGTGTTATGTAACCTCTGGACTTTGAAAATGAGATGGCCCCTGC

Table 2

CGGATCCTCATACTCCCTTGAGAAGAGTTACTAGTTG

>Sequence 263

AGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTTCTTACTAGAA  
GCTAGGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTGAGACGTCAAA  
GGTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCG

>Sequence 264

NGCGTTCGGAGCACTACGCGGNGGCGCTGCGGGGAAGACGGGNGACGNGC  
GGATCTTCTTCTTTTTGGGGCAATGNCACGTTTAATAATGCGTNCCCGGC  
CTNNAAGCCTTCGC

>Sequence 265

CCGGGCTACCGCGGGGGTGGAAACCTCTTCAGCANNNGCTNGGTTCANNG  
AGCTATNANACAANCAACCGGGACCCCAGCTTTTCAGAACTGCAGGGTAA  
CAGCCATCATGAGTGAGGTCACCAAGAATTCCCTGGAGAAAATCCTTCCA  
CAGCTGAAATGCCATTTACCTGGAACCTTATTCAAGGAAGACTGNGNCTT  
TTTTATCGAGTGGATAGAGNGCGCAACCAGGTTGAATTTTAAACACTG  
AGTTCAAAGCTGGCCATGTACCT

>Sequence 266

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGC  
TGGGCAAGATCCTTGTGGAGTCCTCCTCTTTTGCTGCCCCACTCAGAGG  
ATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGCA  
TCATTCTACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTA  
CCTGCCCCGGGCGGNCNGTNGAGCCGCGGGCAGGTACTACCTTACCAA  
CTTTTTCATTTGGGCATCACAAAGACGAGTCTTCTGATGTTCTATAAGCA  
ATATGTTTATATGAAAGTCAGAAAGTTTAGCGAAAATTCGGCCTAAACAGT  
AATAAATGAAAATGGAATGGAAATCAAAGTTCTTAAATAGAACAGAAAGG  
TGGGCACGGGGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAGATG  
GCCGGATCACGAGGTCAGGAAATCGAGACCATCCTGACTAACACGGTGAA  
ACCCCGTCTCTACTAAAAATACAAAAAAATTTGCGCGGGCGTGAGTGCC  
GGCCCCCTGGAGTCCCAGCTACTCAAGAGGCTTGAGCAAGAAAATGGCGT  
GACCCCGGGAGGAGAGCTTGTAGGAGCCCGGATCCGTCTCCTGCACTTCA  
ACCTTGGGCGACTGACAAGGCCTTTGCGCAAAAAAAAAAAAAAT

>Sequence 267

AGGTACTTTACCTCATTTTCTACCAATCATTTTAAGAGAATTTGGTTGTA  
TTTCAAAGAACAAAACAACAATTTCTGTCTGCTGTTTATTTTAGCGT  
GGTCGCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCCAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGA  
TGCTTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAG  
GAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTA  
TATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTTCTT  
GGAACCTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATT  
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>Sequence 268

AGGTACATTTATATGAAAGTCCTCACTTTCAGAAGCAGAAAAGGAGTAAC  
TAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTA  
CTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGAC  
TGCAAGTGGAAGACCTTCTGGCACTGCGACCACTAAAACGTGTAACCTCAA  
TAATGAAGAACTTCACAAAGTATTGTATATAAATGGTGTGCACTCAGCA  
AGCCATGGTCTTTCTGAACCCAGAAAGGTGTCAATGACAAAATATAATAC  
TAGAATGATAACTGTGATGGCAGGCATCAACAGACCTTTCAGAATAGAAA  
TGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCCCTTGACAGAT  
ATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTT  
CTCTGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGAT  
TTAATTTTTTGCTTAAGGCNCGCGCCCGG

>Sequence 269

AGGTACGCGGGATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGTT  
CGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCA

Table 2

ACCTCGAGCGGCCCGCCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGT  
TTAGGCAAAGGGGAGCACAAGTTGAAGATGAGGCGCTGCCACCAATGC  
TGGGACTTCAGGCCAGGGGAGGAGCTGAGGAAGCCACAAGGGAGGACAT  
TTTCTGCAGTTGCTGAACCAGTAGCAACCAGGTCTTGAGAAAGCCCTCTC  
TTGTGGAAGAATAACAGCCAGGAGGAAAAGCTTTTCATTCTGCAAAGCTG  
GGGCAGAAAGTTCTTCTTTGAATCCCCGCGTACCT

>Sequence 270

NGCGATAGGAGCACTCCGCGGNGGCGGCTGCAGAGACGCTTTCGGC

>Sequence 271

GCGCTAGNGCNACCCGCGCNGGCGGCTGGCAGTTGATCGACGACAGCCGG  
GAGGCGNNAGCGAAGGAAGAGACCTTCNGAGNCNGAATAAACTCNAGCGC  
CCCCACGNACCN

>Sequence 272

TTGGAGCTCCACCGCNNGGTGGCGGCCGAAGTCCCACAGTTAGCTGCAGC  
AAAACGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTGATTAAGTTGTGTG  
TCAATGTCCCACCCGTCCCAGGTAACATTTGCCCTGAGGTCCGGGGT  
AATTTAATGGCTGCTGGACAAAACCTCCAAAGTTCTGAAAGATCAGAAAT  
GATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCC  
CTCAAGAGTAACATAATCTTCCCATGCACAAGATGATTAATACAGATCT  
TAGCAGAATCTTGAAAAGCCAGAGATCCAAAGAGCCCTTCGAGCACCAC  
GCAAGAAGATCCATCGCAGAGTCTTAAAGAAGAACCCTGAAAACTTG  
AGAATCATGTTGAAGCTAAACCCATATGCAAAGACCATGCGCCGGAACAC  
CATTCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTG  
CTGCAGCAGCGGCACTACAAGCCAAATCAGATGAAAAGGCGGCGGTTGCA  
GGCAAGAAGCCTGTGGTAGGTATAAAGGGAAGAAGGCTGCTTGTGGTGT  
AACAAGCAAAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAAAA  
ACCAGCCCCTGAAAAAGCCTGCAGAGAAAAACCTACTAC

>Sequence 273

GCGGATTAGGAGCTACTACCGCGCGNNGGCGGCTTANANGACCTGTACNG  
GCTTCGAGCCCGCGNCCAGNCNGGGCGAANGANTTTTNGGCGGGTTGAG  
GCGAGGCACCTCCCTGCCCC

>Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATG  
CGCTCAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTT  
CCACCAAGGCAGAATTCAAGCCCTCATCTGCCAAACTACCACCAAAGAC  
TTACAAACGGGAGCTTTTCGACCCCCCATTTGTACGCGGGGGAGGAGCCTG  
AGGAAGAGGGCGGCGACGGTGGTGGTGACTGAGCGGAGCCCGGTGACAGG  
ATGTTGGTGTGGTATTAGGAGATCTGCACATCCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCANAAAACTCCTGGTGCCAGGAAAAATTCAGCACA  
TTCTCTGCACAGGAAACCTTTGCACCAAAGAGAGTTATGACTATCTCAAG  
ACTCTGGCTGGTGATGTTAATATTGTGAGAG

>Sequence 275

ACCTTATTCCTTCTTGGTACACATAACTCTCTTTGAATACGTCAGAA  
CAGGCTCCGCGGAACCGACTACAACGTCATTTTAAAGGGGAAATAACTG  
TTTTATCCCCCAATAAAGTGGAAGAACTCACGCGAACAACCTGTTATCTC  
AAAATGCCACCCAAAACCCCCATGAACCCTTAAAAAAGGCCCCCCCA  
GTTTTCCA

>Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCTTCTCACCGCACCGGCC  
TCGGTCGATTACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCC  
CACGCGCGTCGATCTTTATGTTATACCGTCACTCCAGTGCCCTAATGGA  
ACTATCCCTCCACTCACTCCCCCTGGTTCTACCCCGGCTCCAAGAGCCTC  
TCCCGGNNCCACTAATTTATCCCAAATTCTAGGGCCCGGCCCATCAG  
NCCCTCCTCCGCGTACCCTGCCTCGG

>Sequence 277

AGGTACGCGGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCT

Table 2

TGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTGAGCTG  
TTCGGTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAA  
CACAGGCCCTCTACCCACTTGCTTGAAGCCACCGACAACGATGACATCTAT  
GGGGCTGCCTGGATCGGCATATTTGGGGGCATCTGCCTCTTCTGCCTGTC  
TGTTCTAGGCATTGGAAGCCATCATGAAGTTCAGCAGGAAAAATTCTTCT  
GGCGTATTTTCAATTTGAAGTTTATAGTATTATGCCCTTTGAAAGTGCCAT  
TTTTGTATTACAGGATTCACCCCCACCCAGACTTTTTTCAACTCCAACCTT  
TTTTCTGAAACAAATGCTAGAAAAGGGACCTGGCCCCGGGCGGGTTCGGTTC  
TAGAAATAAGGGGAATCCCCCTGGGCTGGAGGAATTTCAATTTCAAGGCT  
TTTTAATCCCGGCTCACCTTCTGGGGGGTGGCCCCGCGGTCCCACAATTTT  
TTGTTCTCTTTTAAAGGAGGGGTAAATTGCGCCCGCTTTGCCGAAAAC  
ATGAGTTATACGGTTGTTTCTCTGTGGGTAAAATTGTGATTTCACTTTTA  
AATGTTTCCGACATGACATATTCAAGCGACGCCCCGGCG

>Sequence 278

GCGTTTGGAGCTCCCCGCGGTGGCGTTTCGCCCGGGCAGCTACTTTCATCC  
ATAAAGGCCTGCAGCTGTTTCATTGATCCTTGCAAGTTCATCCATCACCAA  
CTCCATACAGTCAAAGACTTTGCTCTGGTCTGTAAATTTTTCTGGTAGT  
CAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATA  
GGTCCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAA  
TATCTCTTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCT  
GACGTTCTAAAGAAAACTTTGTTATGTATTCTTCATCTCAGCCACAGAT  
GCTTCCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTT  
TTGTAGAGTTCCATCAGTTTCCAGTCCGCTCTGCANAATGTTTCAATTCTT  
CAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTTCAAGACTGAAGCCCTTA  
GTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGAGAACTGGAAACTGGG  
AAGCAGGAGACAGCCAAGCCGTTTGGCTTTCTGCTAAATCGACACTGATAG  
ACCGGCTGAGCTCTGTGATGCCCTGGTGAATGGGATGCAGCGACTTCCGC  
CGGTTCTTTCTTTTACTTCTGCTCGCCGCCGGGATTGCCTNCTGGCTTG  
ATACT

>Sequence 279

GCCTTAGGAGCACACGCGGTGGCCTCCGAGGTACTACTCTGCACTGTTT  
TTTCTTTCTAATAAAACTTTCCCTGTGCAACCTATACTAGTCTTCTGTAA  
ATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCCAG  
GGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTTTATACC  
CTTCCACTTGGAAGACTACAGAGGAATCTTGCTCTGCATAGTTCAAACCT  
AAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGT  
AAATTTTGAACCAAGGGAATCATTTAAGAAGTGTCTGGTATTTTCAAA  
TTTCTGTCAAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGA  
TGGAGACATGCTTATTTTATTTAACTCCCCCAAAATTNAAAAAAAAAAAA  
AAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

>Sequence 280

TGCGGTGACTCCCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGT  
GATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCCTG  
ACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAG  
TTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAA  
GGAGTGATACTTGGGTCCCCACTGACGGAGGAAGGCATTGCCCAGATATA  
CCAAGTATTGAGTATCTACACAAAACCTTGCAGTAGAGGGTTTGTTTA  
GAGTACCT

>Sequence 281

TATGTGGTCACCGGGGTGGCGAGGTACGCGGGGGGAGACATGTGGAGTCC  
CAGCAGAGGCCAACCTGTGTCTTTCATCTCCCTGGGAAGGGTGCCCCG  
AAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAAACAGAC  
TAGGTTGAATCCATACAATGGAATGGTAGCAGACAATAAAAAAGAAATGA



Table 2

ACTATTGATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTGA  
ATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAA  
GGCCAAGAATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGAT  
GTGGGGATGCAGAAGAATTCAGGACTGGAGGGGCAAACCTCCGATGTGACT  
GAGGCCCCACTGCCAAATGGCGGCATGCTCAGATAGCACCCAAGAATTTG  
GGGAAAAAACTGGTGCTCACAGCTGCCCAGTTAAGC

>Sequence 282

ATTATATTTCTACTGCTCAGTATAACGTAAGTGAACGACAGGTGTACCAG  
TCTGCATCTCTTTTCGTGCGCTAATCGTCTCGACGCGTAGGCAACGTATA  
CGAGACTATAGTTTTCTTTCTTATCTACTTCTATTTCTACACTATATATA  
TTTATCCNTTCTTGCGGATCGACTCACCGCGGCTGGCTGGCCCCGAGGAT  
ACCTATGTTCCACTGCTCAGCAGTGCTCGTAGTACGACTCGATGTATGTC  
AGGCACGAGACAGACCCCTCTTCCACTTGTCTATGTTGTATTGCCACTTCCG  
CGCGAGGATATTCTGATAGGATGCGTCTCTCTCTCAGATCAACACGGTAG  
GCAACGTTCCCTTGCGCTGGTACCTTTTCCACCTTTCCCTTTTCCCATTCT  
GGCATTAACACCGGTTCCACCCAACCCTGGCACTTAAGGGCTTGTGAGAC  
TTCAACCCCAACCTTCCAGGCCTCCCCATTGGGGTCTCCTTGCCACCTT  
CATTTGGGTTCTGTTGGATACCAGAGTTGGAACAAGGGGGCCCAGGAATCA  
AAGCCTGTTCCCTTTTCAACCCCACTCAATTGGGCTCAAGGGGAATGTGT  
GTCCCTCCAGTAAGGGGGTTCCCCAAAGGCCAACAAGGAAAAAAATCTTG  
CAAGCCTTTGAAGCTGGAAGTGGCCACTTGTATGCCTAAGGCTTGGAAAA  
AGCCACATAAAAGGGGAGGGGGCCTAGGAACCACCGCAAAAAAAGGTTTTG  
GATGGCCAAGAAAAAGAGGGAAAGGGGGCTCCAGTGGAATATAACCCTCT  
GGGCGCAATTCTNTTTTCCAATTTTCCCATTTGGCCTTGGCCCATTA  
TTTCCAGGGGCGAAGGATTTAACCTCTGGGTAAAGGGTGTGGNGNNGG  
GGGCAAGNAACCAACCTTTATTGGACACCCTGGTGAAAAAGAGAAGCCC  
TCTATTAAGAAAAATTTCCCCAAAAATTGGGGAAN

>Sequence 283

AGTTGTGACACGATTATATTGAATGTTGTCTTCAACGATATAATTTACTT  
CATCAATATTCTAATAATTACATGCTAATATGATATTTATATAATAAATA  
TAGCTAATGAATAACGTACTTGTCTATTTTCTCTAGAGAGCTATCGGGAG  
GCGGTGAGTACAGCATTGGAATGGATCTGTCTTTGGTAAAGATCAGCC  
TATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACG  
GTGTCCTAATGGAAGTCAAGACTGTGTCCTTCCCCTCTGAAAGAATGC  
ATTGCGACCAAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGC  
CATTCCTGTGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGAT  
TACTGAAAGCAAATGTGAAAATCTTCAAATCCCAGGGTGCTATGCCTTA  
GATAAATACGCCAAGAAGTCAAGTTAAGGTTATTGTTGTGGGTTAATCCAG  
CCCATACCAACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAG  
GAGAACTTTAGTTGCTTGACTTCGTTGGATCACAACCGAGCTAAAGCTCA  
AATTGCTCTTAAACTTGGTGTGACTGCTAATGAAGTA

>Sequence 284

TCACATCTCATTCCTTGTGATTATGTAGATTCTTTACACTTCGTATCATCA  
CTCTTTACATATATTACCGAATGTGATATCAATGTACTACATAGTTCCTT  
CATATATATATAATTTTTTATAATTTAGAGTGAAGTCCCGTGGCGGCCGCC  
CGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGTGA  
GGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGACGCTCTTT  
AAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCCTCCTTTCTTGCC  
AAAGGGAGGGGGAAACATACATTTATTCATGCCAGTCTGTTGCATGCAGG  
CTTTATGGCTTCTACCTTGCAACAAAATAATTGCACCAACTCCTTAGTG  
CCGATTCGCCCCCAGAGAGACCTGGAGCCACAGAGCTTTTTTGTCTTGC  
ATTGTAGGAGAGGGGACTAAGTGCTAGAGACTATGTCCGCTTTCCTGAGCT  
ACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTCAGAAGATGTACCCTA  
AGGCAAAACAGGGTTCCCTTGGCCGGTTAAACTAGGGGATCCCCCGGCTTG  
CACGAATTCTATATCAACTTATCG

>Sequence 285



Table 2

CGTGTTCCGGGTGGCGGCCGAGGTAAGTCCCAAATGTTTCAACCGAT  
TTTACCCTATGTTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAG  
TGATGTCCACGTATCTTGGAGTTATGGGTGCGAGTTCTACTACAAAACACT  
AGTTTTTTTCTTCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGA  
GATGGACCAGCTTTTTGGGAAATATGATTGAAATGTGGGTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTC  
TCTCTTCTGCCATCTGATAATAGTGTTATCCAAGATAAAATCTGTGGGAT  
TATAAACATTTTAAGTAGAAGGCCTGCATGATGTCATGACGGAAAGATCC  
TGAAACAGGAACCTTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAAC  
CAAAAGTAACAGAAGATGAAGAACCACCCACAGAACAAGATAAGAGG

>Sequence 286

GTCCTACACCACTGGATTACTATGAATTATACTTTAATCCTAGATTTTTTC  
TGTTTTGATTCTCAATAGATGATGTCTCTGAGTTGATTTGAAATATCAAT  
ATATATGTATTTACTATATGTTGTATATATNATNTANTAGAGAGACGCGG  
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACG  
ACATGGAAAAGATCTGGCACCCTCTTCTACAATGAGCTTCGTGTTGCC  
CCTGAAGAGCATCCCACCCTGCTCACGGAGGCACCCCTGAACCCCAAGGC  
CCACCCGGGAGGAAAATGAACTTCAAATTAATGTTTTGAAGAACTTTCAA  
ATGTCCCCAGCCCATGGTATGGTGGCCTATCCCAGGCCGGTTGCCTGTCC  
TCCTCTAATGGCCTCTGGACCGCACCAAACCTGGCCATCTGTGCTTGGGAC  
CTCTTGGAAGAATGGGTGGTCACCCCAACAAATGGTCCCCATTCTATTG  
AAGGGGGCTATTGTCTTTGCTCCCCATGGCCCATTCATGGCGGTTCTG  
GGGATCCTGGGGCTGGGCCCCAAGAATCTTCAACTGGAACCTACNCTTCAT  
GAAAAGATTCTTGACTGTAAGCGTGGGCCTATTTCCCTTTCGGATAACT  
AACCTGCTGGAAGCGGTGAAGAATTGGTCCCGGGAACATTCAAAGGGAGA  
AAACCTGGGGTTTAATGGTAAGCTTCTGGGACTTTTGAAAAAAG

>Sequence 287

GATGTGAGCTCCCCGCGGTGGCGGCCGAAACTGATCAGACTGTCTCAGA  
TCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACA  
TTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGA  
AACCTTCAGCATATGGAACCTGAATGATCTTCGTGACCTGACACAATGTG  
TGTCCTTGTTCTTATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGAT  
CACGGGACTGTCGTATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGA  
TGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAA  
TTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGAT  
GGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 288

GTGATGACCCGCGCGCGGCGGAGGTCCCTGTACTCCAGGGCACTGGCGG

>Sequence 289

GAGATGCTATGAGGTGGCGGCCGATGACCGTCATTGTCATGGACAGACTG  
GCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAATCCGATAATTT  
TTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTGAATTTTTGTTT  
CCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAAGAGTTTCCTT  
TGTAAGTGTTCTTTATTGAAATCTATAACGAGCAGATATATGATCTACT  
GGACTCTGCATCGGCTGGACTGTACTTGGCCCGGNATTTTGAAAAATGGG  
GGACCATTAAAAGCATAAAAGGCATTTGGGGCCTGGGGGACAATGATTTA  
TACTTTCCACGATTTAGCATCTCTAGCCACCCCTTAAATAAACTGTGCGA  
CCTCACTTTTGGACAGCCAAGAGCTTACGATTAGTACCTCCCGGAAACCC  
CTACTATACAGCGCGGTGGGCACCCTAAAGGATGGTATTATTGACCGAA  
ATTGGGGGGCTGCATCCCATATTGATCTTCAATCTATTCTG

>Sequence 290

ATCTATACAATACATATTATAAATAAATGGTGTATATATTGTTATTAT  
AACATATTATAATTTTTTTTGATAATCTAATTGATAGAGTTATCAAAAAT  
ATATATCTTAATTTATTTAATCTATACTATTATTAAGATACTCCGGG  
TGGCGGCCCGCCCGGCGAGGTACGTCGGGGCTCCGTAGGAAGCCTCATCTC  
CCTAACTAGCTGCTTACACAAAGAACTCCTTGAGAACTTGAACCTTGCCA

Table 2

GGGAACTAAAAACCCATTGAAAAGAAGGCTCTGAATCCCTTTTCTTTGCA  
CTATCTCTTGGCCCTGACCTTTAGACGGGATATGATAAACCTATCTGGTG  
TCTTAATGGAAAATCAACCAATCGAAAAAGGCCATTGGGAAAATCTTTT  
AATAGAAAACCTATAATTTCCCCTTTTCTATTTAAAACCAGGGAAGGAAA  
TATGTCAAAAAATCCCCCTTTTTTATTACTCCCCCTCTACAATCCAAAAT  
GGATGGGGGAAGATCTCTTTAAACCGTTCTCAAAAAAAGTAGGGTGATC  
AAAATAAGAAAACCTGTCAATTCTAAAAGGCTCTTTGGTCCCCAACCAAT  
GTCTTTAAATGATGGAGTAACCTCTCCCTTTGTAGATTATATACTATTT  
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TTGGGGTTTTATATATTGGGGAAATAAACCAAAAAATGGGCTTGGACCTAT  
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>Sequence 291

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CCAGACACTTCTTAAATGATTTCCCTTGGGTCAAATTTACCCCTTCTTG  
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>Sequence 292

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>Sequence 293

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CAAGTGAGAGTCGCAGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGA  
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ACCTAATTCAGAAGTCCAGAAATCAGGAGACGGAGACATTTTGTCAAGTT  
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>Sequence 294

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ACCATGACGCTCCTTCTTTGCATTTCTACCTCTTCCCCACAGCAGTGC  
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CTGACTTACTTGTG

>Sequence 295

TGAGATGACTACCGGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
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CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
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TCT

>Sequence 296

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CAGTTCAGGAAGGCAACAGCAAATCTCTGCCAGTGTTAACAAAAATGCTG  
ACTCCTATGAAAGAATTATGAGTGTGGAAAGATGAACTCACCACACACGC  
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>Sequence 297

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AGTGATGATGATTTTGTCTTCTGCAACTGTCCCTCGGCCGTTCTAGAACT  
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CTACACCCTAGGGGGGGGCGCGCCCCCTTTTTGGGCCCTTTTGAGG  
GGGGTTTTACGCCCCCGGGGAAATAAAATAGGGGTAACTTTTTTTTTT  
GCGGGAAAAAATTTATTCCCCCAAAAAAAAAAACGCCCTTTTTTCCCGG  
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>Sequence 298

ACCACACACTTCCATCTCATTATATCATCTGATTGTAATCAATTATGTGA  
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TTTATAGTAATTTAAGTGTTTTATTACATTCTTAAGCGTTGACTCACGG  
GTGGCGGCCGAGGTACTCCCCAGCAAATATCTTTGTTGGCTTGCTTGAC  
TAGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCATGTGTTG  
TCTGAAGAACTGGAATCTGTCGCTCGCCCTGAGCAC

>Sequence 299

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CTAATTTTATATATTATATCGTTAGCTCCGGGTGGCGGCCGAGGTACTTC  
TGTCTTCCAGTTTTCCACTTCAAACCTCTATCTTCTCAAATTGTTTCAT  
CCTACCACTCCCAATTAATCTTTCCATTTTCGTCTGCGTTTAGTAAATGC  
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TATTTTAATCACCTACAACCTTTAAACTAACTTTAAGCTGTTTAAGTCA  
CCTTCATTTTAATCTAAAAGCATTGCCCTTCTATGGTATTAATTCGGGG  
CTCTGTAGTCCTTTCTCTCAATTTTCTTTTAAATACATTTTACTCCAT  
GAAGAAGCTTCATCTCAACCTCCGTCATGTTTTAGAAACCTTTTATCTTT  
TCCTTCCTCATGCTACTCTTTTAAATCTTCATATTTTCTTAAATCTT  
AAGCTATTA

>Sequence 300

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CTTCTGATACTTATCACACAAGATGGTGCCTCAGCATTTAAATAAATGGA

## Table 2

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CAAACCACAATGCAAGTATTTCTGACTCCCAAGATTGCCGTTTCCTAAAG  
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TTCAGTAAATTCTTGATGGCCTTCGATTCTGGATTGACACATCTCTTCTC  
ACCCTTCTTTTTCATTGTAGCAATGATCTCAACACGTGGACAAAATTGGC  
TTGCAGGAATAATTTCAAGTTTTCTAAAAACCTTGGATTAACAGGTGGA  
TACTTATTGCTATGCAGGGTACCTGGCCGGGGGGGCTGTTGACACCTG  
GCTAATGGTCTTGACATGGAACCGGGCCTTAAATTTGGCATT

>Sequence 301

GCGACTGTGCTCACCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTT  
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TGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGTT  
TAGAGTACCT

>Sequence 302

GGGATTGGAGCACACGGNNGCGGTTGGGGACCACGGAAGTGCATGNTCA  
GGACCCACAGGAGCGACCCTGAAAGGACCATTATTCGCACAGAGCTGCAA  
ACAACATACATGATATAATTTTAGAATGTGTGTACCTGCCCC

>Sequence 303

GCGGATTTGGAGCNACTCCNGCGNNGCGGCTCGGNNGCTCNTACGGCC  
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TACNGNNGCCCCGAACACAAGGAGANCGA

>Sequence 304

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GCGGGCGCTGTCACCTCAGGACCCCTCCCCCGCTACGCTGGATAGCCT  
CCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGA  
GACATCTCGGCCCGAATGCTGTCAGCTTCAGGAATCCCCGCGTACCTGCC  
CG

>Sequence 305

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ACCCAGCAGCTTTATCAAGCAGAATTCACCTGTATTTCTTAACTTGCCA  
GAGCTGAGTCTCATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTAA  
CAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAA  
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TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTG  
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>Sequence 306

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CTGGTCTTGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGT  
CGGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGC  
GCTTGCCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACTCAA  
CTGTTCTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGT  
TGTTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCA  
ACACAGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATG  
GGGCTGCCTGGATCGCATATTTGTGGGCATCTGCCTC

>Sequence 307

TGAGCCCGGCGCCANATCACCATTATTCCTTTAGTCACCTCAGAGGCT  
TGTTAATGCTTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATC  
TTCAGTTCTTCTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCT

Table 2

CAGGCGGCTCCGGCAGCGCTGGACACAGGAACTCCTGGGTCCCCGACTC  
CGGCTCTCCTCTACCCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAA  
ATGGCGCCGGAGGTCCCCCGGTACCT

>Sequence 308

GCGGTTTCGGAGCNAACNCGCGCGNGGCGGCCTGGNNGACCANTACNGG  
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TCANGCNGAGCAGCCCGAAANCNNNGGAACCGGCCNCNNNGNNGTTCNN  
GNNGAAGAACGGGCNNANCCCCAGAGAGAGCCAAAGNNAACCCGGCCCGC  
NCNAAGAACAAAGCGGANCCCCCGGGCCGGCAGGAACNGCGANAAACA  
GGCCCAANCTTTTCTTTTTTTTTTGTGTTGGGGGGGCGCGCGGNACCCC  
CAGCNAAAAGAACCACAANAAGCCGAGGGGNNGAAGGGGAGCAGCNCNN  
GGCGNAAANCATTGGNCAANAGCNGCCNCCNGGNGANGAAANNNGCNA  
NCNCGCGNCACAANNCCACACNAACANNACGCAGCCGGGAGCANNAAG  
NGNAGAAGCCCCGGGGCGGGCCCAAGGAGGGGAGCNNAACNCACANNNA  
NNNNGCGNG

>Sequence 309

GCGTTTGGAGCACACCGCGGNGGCGTTCGAGTACTTACGAACATNCNNAN  
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CTCNNNATNATCGAGNGCCAGAAACCTTTTACAAGATGGTAAAAAAAAAA  
ACAGAAAAAAGAAAAAACAACCAAAAAACAAAAAACTTTACAACC  
ACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTCCAAACCTATTG  
GGNGCAAAGCCCATTTTTTCCATGCATCTAAATGATAGATACAGGCTAT  
GAAATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACA  
AAGCTTCAGGACAAATTGTACCTGCCCGGGCGGCGCTCT

>Sequence 310

GGCGTTANGNGNCNACTNCGCGGNGGCGACTCGANGNCNGCATCTAAGC  
ACGCNACCCGNGGACAAGAGCAGGNGGCCCTAGNNNGACNGTNTTATGCT  
GCNCCGCGANGCANGAGGCNCNGCACAACACNACATGCAGAAGAGCCGC  
GCCCGGCCCCGGGAAAAAGAGNGCGA

>Sequence 311

GCGCTTTGGAGCNACANCGNCGGNGGCGCGCTGNNGCNCGGTACTCNGAG  
GAAAAGCNCGCACCAGGNGGACGCGGACCGTTAGCAGNGGTTTAGGCACC  
CCAACAAGCCGCGGGGCAAAAGGNCCNCGNATTT

>Sequence 312

GCGCTCGGAGCTACACCGCGGTGGCGCTGCCGCGCCAGACTCTTGGAGAA  
AGTATAGCAGCAAAATGCCTATTTTACAGGAAACAGAACACATACCC  
AGAAAAATGCCCTGGCAATCATCAATCAGTTTTCCAACATCAATAAA  
GTGTTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAATATTGAAG  
AATTAATAGAGAACTTCAGTCTGGAATGGAGGTTATGGATCAGATTTGT  
GATGTGAGAAATATCTGACATAATGGATGTATATGAAATGAACTATCCAC  
ATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAACTC  
TAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAAAGA  
ACTCAAGC

>Sequence 313

AGCGATTGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCA  
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AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT  
AATTGTAGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAA  
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CCCTCTTGGTATTGTTTACCTAAAAGGAAGAAAGTGTAGGAAAAACTGATA  
TAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACTGTA  
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>Sequence 314

GGCGATTGGAGCTCCACCGCGGTGGNCGGTTCGAGGTACGCGGGGGGTCTC  
GGAGGTTCAAAGAATTGCAGGAGGGTTTAAAGCACCTGGGTGCGGTGCAG

Table 2

ACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTCAGGAA  
TGCATGAATTGATTAATTAATGTCGAGAGCTGTAGATGGCTTTTCTCAA  
GGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTACCTTTG  
TGTTCCCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCC  
CGAAGATGGCCAAAGACAACCTCAACTGTTGCTTCCAGGGCCTGCTG  
ATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGCCCTGACTGCGGA  
GTGCATCT

>Sequence 315

GCGATTGGAGCTACTCGCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCAT  
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AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAATAAATT  
AATTGTAGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAA  
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCTTTTAGTAACC  
CCTCTTGGTATTGTTTACCTAAAAGGAAGAAGTGATAGGAAAAACTGATAT  
AAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACTGTAT  
GGAGACAAGTTGTCCTGAACAATACACATTCTTATTAGCAACAGTTATAA  
GTAGGTTTTCAAAGAAAAAGAAGAGGCAGTTCCTAAG

>Sequence 316

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG  
AGCTCGGCGAGCGAGAGGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCC  
CGCGTAAGCAGTGGAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG  
GATGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTC  
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGA  
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGC  
CTTCTGATG

>Sequence 317

GCGTCAGGAGCACACCCCCGTGGCGTTCGCCCCGGCAGGTACTCTGCAGA  
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CCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACATCAATA  
AAGTGTTTTAACTCCTCATTTGAAAGATGGTGTTCTGGATTGAATATTGA  
AGAATTAATAGAGAACTTCAGTCTGGAATGGTTTTTAAGGATCAGATTT  
GTGATGTGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCC  
ACATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAAAC  
TCTAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAA  
GAACTCAAGCTGAAACAGA

>Sequence 318

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGA  
AGATGAGAAATCTCCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAA  
ATGAAGGTAGTTGTACAGTGATCAGATGAGCAACGATTTCTCCAATGAT  
GATGGTGTTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTGA  
GATCTCAAAATCTGGACTTGAAAGAATTCCTTGATCTATGAACTTTTCT  
CTGTTATGGTTTATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGT  
ATAAAGTCATTACAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACAC  
TGTTTCTAGCCTTGTAATAAGTCCCACTGAACTGATATTCTGCAGA  
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>Sequence 319

AGGTACTTTTTTTTTTTTTTTTTTTTTTCAATGTTTCAGTTTCCTTTAAT  
GACCCCCATCTCCCTGAAGGGCAGGTGCAAGGCAGCTAGGTGATGGCAAGA  
GATGTTCACTTGAAGATCTTGCCCTGATTGAAGGCTTGCCACATGCTG  
GAAGGCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCAT  
TTTCAGCCAAAGAAAGGGCACGTTCAAATGAGGTCAGAGTCATATCATAC  
TGCTGGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGT  
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GCTGATCAGAATAGAAGTGGTTGCTTCCAATGCATGCGAT

>Sequence 320

Table 2

GCGCTAGGGGCAACCCGCGGNGGCGGCTGCCAGGCGTNGAACGNGCACCN  
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CCCAGCGAGAGAGAGGNGNAGGAGGCCNGCAGGNACCN

>Sequence 321

CGGGCTTGAAGCNNATNCGCGCNGGCGGCTGANAAGCTCGTCGGNCGCGC  
ACAAGCGGAGNNAACCGAAGAGGGGGCTGAAAGNACGCGTTANCCGGACC  
CACCAGNNCCNGNGNCCAGCGCNGCCGTTTTCCNGAGGGGGGCACNNCC  
CGCAAAGGCNNGGAGNGCAGCGGCACAANCCCGGCNCACGGCAGCCNNNGA  
NANNCNGGNCNCAGGNGACCAGCACCTTTTCTTTTTTTTACCTAGAAGNNG  
CCAAGCCACCCGNCACAAAGCANACAAACCGAAACGGGCGGGGGGAAGG  
ANCCAGATGNNGANGCCAGGAAANGGGANGAAGACCAAACGNGCCANGN  
NNCAGAACNAGAGAAGACCCCNNGGAAAGAAGAACCGAAGANANNANACA  
GANACCAGANAAAGCCCAANNACAAAGAAAGCANA

>Sequence 322

GCGTTAGGAGCTACACCGCGGNNGGCGTTTTTGGGGACAATACTTACAAAG  
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>Sequence 323

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAA  
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GGTTATTTTCTTTATCATTGCTAAACTGATGACTTACCATGGGATGGGGT  
CCAGTCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTGGAA  
AGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCACACTCG  
CACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCC  
CG

>Sequence 324

TGATGTCGAGCTCCCGCGCTGGCGGCCGCCCGGGCAGGTACTTTTTTTT  
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT  
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG  
AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTCAAAATTTACCC  
CTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTTAGTT  
TGAAGTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGGGGAAGGGTT  
TAAAAAAAACCTTTTTTTTTTCCCGGGGAGGGGTCAAAACCCTTGCTA  
TTGAAAAGGGGTGGGTTTACCGGTTATATAGGTGGTTATAAAAAAATTTT  
CAAAAAACAATTTTATGGTTTTTAAAAAAAAGTGCCCTGGGTCTTTT  
TAAAAATAATGGGGTCCCCCCCCGCGGTGGGGGAAATTTTATTAATAAC  
TTTTTTTTTAACCCCCCTTCCCTCTAGGGGGGGGGCCCCCGCCCCCATTT  
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>Sequence 325

TTTCGAGTCGGATTGAGCTCCCGCGGTGGCGGCCGAGGTACCATCAAGTT  
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AGGCAAAGTATCCTGCAGAATCACCAGATTATTTGTGGATTTTCCTGTT  
CCATTTTGTGCCTCCTGGACACCTCAGGTAAATTCTCCTCAGAGCTCCTT  
AATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCGG  
GTCGTTTGTATATTTATCTTCTGGTACTTACTCTTTTTATCCATTTT  
ATTCCATCCTATATTATTATCTATTTATTACTTAATCCATTCAATCCTTT  
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TTTCTTTGTTTATCTTGCTCTCTCTCCTCTACCCTATACACTCTCTTTAC  
ATCTTACTTTATAACATCTTCTATTCTTTCTTATATCTGTATGACTT  
CTTCAATCATTCTCTC

>Sequence 326

TATGATGTGAGCTCCCGTGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTT  
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT  
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG



Table 2

AAAAATACCAGACACTTCTTAAATGATTTCCTTGGTTCAAATTTACCC  
CTTCTGTTTTCTTTGCTTTTCAGGTAATTAACCTTCTCTTTTTAGTT  
TGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTCCAAGTGAAGGGTA  
TAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCA  
TCGGAAGTGGTTGGCTCACGGGTCATTAGGGTAGTAAGAAGAATTTGTA  
GAAGACAGTATTGGTTCTAAAAAGAAAGTTCCTTGGTCGT

>Sequence 327

GCTGCCAGGAATATTTTGATAGGCCAAGTTTGGCCCTTTTTAAAATTGGG  
ATCCCCCGGCGGGGGGAATTTTGTTTAAAAGTTTTTTGATACCGGCCCC  
CCTTAGGGGGGGGGGCCCGCCCCACTTTTTTTTTCTCTTTTTTGGGGG  
TAATATTCCCTTTGGCCACATAGGGGAAAAATGTTTCCTTGGTGGTGTA  
CTTGTTAAATTTCAATTCCTTCACCATTCACACAACCTTCTTCCCG  
GGAGCATTAAGGGTAAGCCCCGGGGTCCCTAATGAGTTTAACTA

>Sequence 328

CCGCGTCCGCCTCTAGTGTACAGACACTCCTGGGTTTGAATTTTGTG  
TTCTCTGTCTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG  
AAAATAGAACAATAAGAGGAAAGAGGCTCTGTCTTAGCACATTCCTG  
TGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGGCCTTGGCACAT  
GTTCTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC  
TCTACGCATCCCTTTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTT  
TTGGGTGAGAGTGGGCACCCCTTCTCCAAGGCTCCCTGCAACAGCTGGC  
CTGTCCCTGGTGGGGCTGACAGCTTCTTCTTACCCTGCCAGGCTGGCCA  
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTTGGGGCCGTGGC  
TACTCACTAGCTTGGATGGGCCCCTGTTGGAGCCCAGATCCTTGGTACCT  
TCACTGGGTG

>Sequence 329

AAACTATACTCCTAGTACTATTCATTTCACTATTATTGTGTAATTATATT  
AATTCAGTTAACTTTACTCTCTAAATACTTCTATAAATACTATCTTCTAT  
TCATATTCATAATTTTATTCTATTTATTATAATAATTTATTATATAAA  
TTTTTCGTTCTCGTTGCGCCGACAGATACTTTACAGGATGGCATTTAATAC  
AGATATTTTCGTAATTTCCCCCACTGCTTTTTTATTGTACAGCATCATTA  
CACTAAGCTCAGTTAAGGAGCCATCAGCAACACTGAAGAGATCAGTAGTA  
AGAATTCCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCAGA  
ACTATATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAAT  
ATTAAGAGACAGTTTTTCTATGGCATCTCCAAACTGCATGACATCACTA  
GTCTTACTTTTGCTTAATTTTATGAGAAGGTATTCTTCATTTTTAATTGC  
TTTTGGGATTACTCCACATCTTTGTTAATTTCTTGACTAATCAGATT  
TTAATAGAGTGAAGTTAAATTGTGGGTCATAAAAAGCATTGGATTGACAT  
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>Sequence 330

GATGATGACTCACCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACCTC  
ACTTTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTT  
CAGTGTGCTTCTGACTTTTACGGACTTGGCTTGTTAGAAGGTGAAAGAT  
CGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTGGCTTTC  
TTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTC  
ATCCTCAGAATCTGAGAATCTTCATCACAAGCTATCCGCTTGTCTGATG  
CTCGAATAGAAATTCTCTGTCTGGATCTTCTCCATCTTCATCTCCACTG  
TCTTCATGAACAGCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGC  
ATGAGGTAACATGCGCAAATTTCAAACAAACGCTGTTTTATCTTTTCCA  
TATATTTGGAGTGTCTGGTTTGTGATGTTGAAGGACTAATATGCAGTT  
TGAAGTCTGGT

>Sequence 331

TCTGATGTGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAA  
GGAGGCTTTGTTGATTGTATAACACAGAATCACAAGTTTCAGAAAGAA  
GTGCTTCAAAGAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCT



Table 2

GGGTTCTGGTGAACCTTAACTTGTACAGCAGCAGGTGATCAAACAGCC  
AAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCA  
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TCTGTACCTGCCCCG

>Sequence 332

TGATGGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTG  
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AGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTAT  
GGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGG  
TACCT

>Sequence 333

TTATATGATCACCGGGTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTG  
AACGTGCTAAAATGGGAAGGAGGCGGTGTTTGTCTGATCTGTAAATTCT  
TAGTGAAGTTTCTTGATTTCCAGTGGCTGCTGTTGTTTGAGTTTGGTTT  
GGAGCAAACTGAGGTAGTCCTAACATTTCTGGGACTGAATCCAGGCNNG  
AAAAAAAAAAAAAAAAAAAAAAGGTACCT

>Sequence 334

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GCGATGGAGCCCCGGGGGTGCCTGGTTATTGTCCGCTTCTCTCTCAGATG  
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TTGGATCCAGTCCTTGTTTCAAGAAATTGTTTCAAGGCACTTAAGGCTGCC  
TGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTGAAGGTTGTAC  
CT

>Sequence 335

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TGCTAACAACTTTCAAATTCTTCTACTTACTCCCTCTTCTTCAGCTTCAC  
ATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAG  
AGGGAAGCTCAATCCATGCAAGCCCCAGATAATATGAGAACCTCCCCA  
ACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCT  
GCTTTCTCAAACCATGTTTGGACCTGCTTGGGAAGCTCCCTCTGCTCTCCC  
TAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGG  
TGTGTGTGTTGATCATCAGCCTCAACATCTGAAGCAAATGTTGGGGGGG  
GGTACCT

>Sequence 336

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CAGGAGGTTTCAGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACA  
CCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCCTCAGGCTCCCA  
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GTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGT  
ATCCCTCTGTGACGAAGAATGGATGTGCCCAGGCCCTGCACAAAGGGCCC  
TCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACTGCTCGCTGGCAACA  
AGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTA  
GTAGTTCTCAATTTTATGGGAACTCCAGACCTGTCAGCAGAACAGCCAG  
AACTACAGGGCCATGGCGGAAGGACTCTGGAGAAGGGTTTTTCG

>Sequence 337

GATATGTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGT  
GTCACATCCCCGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGT  
GGATCCATACAATACTCCGCTGGTGAATCTGAGAAGAGCCACGTGCT  
GGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCC  
TAGATTGGTCCACTGGGAAAACCTGGAAGGGCCGGGGACCAGCCCTTGAAG  
ATCATTAGCAGTGAATCCACAGGGCAGCTCCACCTCCTGATGGTGAATGA  
GACGAGGCCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCC  
AGGCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTCA  
GGGGGCGACGATGGCCTTCTGAGGGGCTGGGACACCAGGGTACCTGCCCCG

>Sequence 338

Table 2

GGAGACGCTCGATTTCGGCGGCCGATGACGTGACCTCTCTGGGAAGAAGTT  
ATTCTGCAGGCACACATTAGACCCAGNGATGACAACAACNGCACATCAAA  
AGGCGGGGGGAAGATGACAGACGGTGCCCGCCAGGGCGGAAGAGACCCA  
CCTGGGTGCCTGGGCCCCGACGACAAGGGGGGACCTGCCCCGGGCGGACGCAC  
GAGAACTAGAGGACCCCCCGGCTGAAGGAATGCGAAATCACGCCAAGCG  
AAACCGGCAACCCGAGGGGGGGGCCGGACCCAGGGGTTGATCCCTATA  
AAGAGGGGGGAAACGCACGCTAGGGGGCGAAACACGGGCAAAGGACGGCTCC  
CCGGGCGAAAAAAGGGGAACCCGCACAAAAAACCAACAACATACCGG  
AACCCGGGAGCCAAAAAGGGGAAAAACCCGGGGGGTGCCCAAAGGAAAGG  
AGGCCAACCTCACAATAAACTGGCCCTTGGCCCCACAGGCCCGGGTTA  
TCAAAAGGGAAAAACCCCGGCCGTGGCCCCACCTGGCACAAGGAAACCG  
GGCCAAAGACCGG

>Sequence 339

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TTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATAT  
TAGTGCAGAAAAATCACATTCAATAAACACAAATTGTAGAAGAGACAGAT  
AAGTGTGTTTGTACATTTTACACAAATATAATTTGATATTTAATTAAG  
GGATGATGAATCACATTCCATGTAAATAATGATTTATTCTCTCAGTAATA  
GAAGGATTCTCTTTTGGGTATTGAGGGGCTTTTGGGGTTTATTTTCAATA  
CAGTGGCCGTTTAAAAATATAAGGGAATTTTTTTTTTTTAAAGAACCTTT  
TCCCTTTCCAATTTTTGGGCAATTTCCCGGAAAAAAAAAAAAATTTTCCC  
GGGATAAACCCCCCCCCAGGTGGAAAAAACCCCTTTTGACAAAAAA  
TTTTTTGGGGGGGGTGTTTTATTTTGAAAAATTTTTTTCTCAGGAAAA  
AACCCCTTTAAGAGGGGGGGGGGGGGGGTTTTTTTGTTTTAAAAAAG  
TTTTTTTTAAAAAAAATTTTTTTTTTTTTTTAGAGGGGGG

>Sequence 340

CCGGGCAGGTACGCGGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
GGCGCTTGCCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAAC  
CAACTGTTCCGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT  
GGTTGTTGCGGCATTGCCTGATGGGAGTGTATCTTTTTTGTATCTGACCA  
ACACAGCCTCTTACCACTTGTGNGCCAACGACCACGATGACATCTAAT  
GGGCTGCCTGGAACGGCATAATTGTTGGCAATTGGCTTTTCTGGCTGGCT  
GGTCTAAGCAATGGAAGCCTTATTGAGGTCCACAAGGAAATTTTCTGGGC  
GATTTCAATTCGGAGGTTATAGGTAAAGCCTTTTGAAGAGGCATTTTGAT  
TACAAGAAGCAACACAAACGAGACTTTTTTACACACCCAACCTCTTTCTT  
TAACACAATACTATAGAAGGGACCCTTGGGCGCTCTAAAAACATAAAGGG  
ATCCCCCGCGCTGTTGGGAATATTTAAATTAAGCCTTATTTGATGACC  
CGCCGAACCTCCAAAGGGGGGGGGGCCCGCGGACCCACATTTTTGTTGCC  
TTTTTGTGAGGGGGGTAATACCCCTCTTTCTGGGAAAAATAAGGGAAA  
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GGCGAACTTAACACTATATTTGGGNGCGCCTAACCGCGCTTTTTTAAA  
GGGAAAAAATTTTGGCGCCCTCCTTATAAAAAACACCCACCCCCCGGG  
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GC

>Sequence 341

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NAATACTGCCAGTTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCT  
ACTCTTGCCTTAAAACTTTTCTACCAACCCACCTTCCACATGCATGA  
TATCCAAGGTGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGT  
GCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAG  
TGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTA  
TACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGT  
TCGGTTTCTCACTGTTATCTTCTTTCTATAATTAATTTATTTAATCT  
ACAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAATATTAATTA  
ATGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAAATGTT

Table 2

TGCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAAGC  
ACATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTACCT

>Sequence 342

TTTGATGACTCACCGGGTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCA  
CTGTCATGAAATTTAACTTTTCATTATAATACTGTTTTAAGAACTTACAG  
CATCTGCTTTACAAATGGTGTAGCTACATGTCGACACAGCATCTTTAGC  
CAGTTTTCTTTTGGAAAGTTCATCTGATGTCATCTGGAAACTGAGTAGCAC  
ATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGC  
AATCTAGGGTTCAGAATAACCATAAACATTAAGTGTCACTCCTTGGAAA  
ATGACAGATGTATGCAAGTTTAGTTCCTCAGAGCAATGAAATTCCTAATG  
AAATGAACTATCACTTCTCCACTTTCCTTGTCTATTTTAAATAAGACAA  
AGAACATCACCATAATTAAGTTGAAGTACCTGCCCG

>Sequence 343

CCGGGCAGGTACATCAGAGATGCTCACACATTCTTTGAGTAGTTTAAAAA  
CTCATTTTAACTACTTTTATTCTTTGTATTCAAACCAATCACTGGCAAT  
AGCTCTAAGTAGGTCACTCACTCTCCTCCATGTCTTCTTTCTAATTCTGC  
CACAGACTCACTTCTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGT  
TCTTAGAATCTCAAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATA  
AGTGGTGGCAGGAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGA  
GAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGC  
TGGCTTCTTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAA  
ATGTGCTTCAATATAGTTTATGTTATAAAACATTTATGGGGGAGTATGTA  
TGTGCCAACTACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGT  
GTTGCTTAGAATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTT  
ACTATATAGGCAATACTAGGGTAAATATTTACATAGATTACCTTATTTA  
GTAGCTCTTAGCTGCTAAAAAAGATTAAAGATGTCCAGTCTAG  
AGTCTCATATTGTATGGTAAACACTAAATGGTGGTATGGATCAGTTGC  
CATGGAAACACAGGGCGGNGCCCTCAGCTCAGTTTAGGAAGGAGCAGAT  
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CCCACAGCAGAGGAAGTACAACAGGCAGGCCT

>Sequence 344

AGGTACTTTTTTTTTTTTTTTTTTTTTTGTGGGAGTTAAATAAAATAAG  
CATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACAAATGTAACAA  
CTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTG  
TTCAAAATTTACCCCTTCTGTCTTTCTCTTGTCTTTTTCAGGTAATTAATC  
TTCTCTTTTATGTTTGAAGTATGCAGTGCAAGATTCTCTGTAGTCTTTC  
CAAGTGGAAAGGGTATAAAAAAACAACCTTTATATTATGCCAGGTGAGGT  
GTCAGAACCTTGGCATCGGAAAGTGGTTGGCTCACGGGTATAGGGTAGT  
AAGAAGAATTTACAGAAGACAGTATAGGTTTCGAAAA

>Sequence 345

AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAAT  
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CAGTCTCTTATGCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTG  
GTGCTCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGT  
TTTGACAGCAGAGAGCAAAGTCCGCTTGTATTCCACCCGATACGTGAG  
CTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
GAGGCCTTGTAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCT  
GTTGCCCTCACCCCTTGACACATGCGGACCCTCCCCAGGCT

>Sequence 346

GGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAGTCTGAATG  
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CGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCA  
TTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCC  
CTTGATGTCTACAATATCACCTTTCTTATAGATTCGCATATATGTGGCCA  
AAGGAACAACCTCATGTTTTCTAAAAGGCCTAGAGAACATATATCGGGTG  
CCTCTCCTCTTTCCCTTTGTGTTTCGTCATTTTGGCGAATTACTGGAAGAT

Table 2

G

&gt;Sequence 347

CCGGGCAGGTACCACGCCCAGCTAATTTTTTTATGTTTGTAGTAGAGACG  
AGTTTCACCATGTTGGTCAGGATGGTCTCAAACCTCCTGACCTCAGGTGAT  
CTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCA  
TACCTGGCTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATT  
TTAAAGCAAATATCAGACATACCCTTTCACGCCTCACACTTCAACATGCG  
GCTTGTGAAATTCGTGCTCCACTCCAGCAACTGCTTTCAATCGGAGTTC  
CATCCTCCGCCGCAGTATGCCCTAACGCAGCGTTATCTTCAGAGCTACTA  
CCCAGTTTCCGAACTTTTCGAGGGAGCGCTTTGGCACCACCTTGAACGG  
GGAACGGGTGCGTAAACCAAACCTTGAACGCCAGCCCCCCCCGCGTACCT  
GGCCCCGTTT

&gt;Sequence 348

AACGATGACTCACCGCGGTGGCGGCCGCCCCGGGCAGGTACTTGACTGCTA  
CAACTTTCAAATTCCTTCTACTTACTCCCTCTTCTTCAGCTTCACATCTGG  
GAAAACTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAA  
GCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCAACCTTA  
CCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGCTTTC  
TCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAA  
GCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGT  
GTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTACC  
T

&gt;Sequence 349

GAGTCGACTCACCGCGGTGGCGGCCGGAAGGAGGAGAGGTGCTGTGCTGT  
GTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTT  
ACATCACCTTTTGCTTGGAAAGATTTACTAAGAAGTCAAATAGTGGGTTC  
CTTAGAGGGAAGAGGTTGGAAAAAACCATGACTGTATTCAGGAAGGCACA  
TGAAGTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTCGT  
TGCTGTGTTATAACTTCCTGAGGGAAGCTCTGGAAGTGCCAGTAGCTGGA  
ACTGAATTGTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGT  
GCTGATCGAGTCAAAGAGCCCTGACATAGCCATGCTTTTTGAAGAAGCCT  
TTGTGCACCTGAAACCCAGGTTTGTCTGCCATTGTGGATTTCCTGGGCA  
GAGTGGAGTGGAAGGTGCCAAAAGCCAAGAAGACACTGAGGCAGTCTTTA  
AGAAAGCTCTTTTACTGTATAAGTGC

&gt;Sequence 350

GGCGAAGTGAGCTCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCCGTGCTA  
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CAGAGTTTCCTGGTTCACGTGGATGTGAGGATCCTTTACTCCAGATCGCC  
AGCCAGTTTTTGTTTTTTTTCTGCGTTGCTGAGAGTCTGGGTTTATTCA  
TCACACCAGGTGGATCTTAATTCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAG  
AGAACGTATCCATGTACCT

&gt;Sequence 351

GTAGATGGTTGACTCACCGCGGTGGCGGCCGCCCCGTGCTGGTCCCTTATTA  
TTGCCCGTTGTTTCTGGATGTGAATGGATTACAATGTATTTTTTTAGGGA  
AATCCTATTATTATCAATGTGACTCCACGGGGGAGTCCATGGTGATGATG  
ATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAACAAGTT  
TAAGACTTTATGAGAGAAGAAAAAAATCACCAACAAGAATTGTTTGAGG  
AAAAATCATAACTATCCTGTGTTCATTTTTTTTTTTATAAACAATAAGAA  
AAAGTTGTTGGATTTTTTTTTTAATGATTTCTTTTTTGGGGGAGGGAATTT  
TGTTGCAGTTTTATGGTGGAAAATGCAAAAACCAGAGCCAGGTGCATAAT  
CTTGTAATCTGTGGATATCCCTGGAGCAGGACTGATGTCT

&gt;Sequence 352

TGATGAATCGACTCCACCGCGGTGGCGGCCGCCCCGGGCAGGTGTTGGTAACA  
ACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG  
TGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCAG

Table 2

GGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGCAAATAGAA  
TGAGAACCATATTATGTACCT

>Sequence 353

GTAGAGAATGAGCTCCCCGCGGTGGCGGCCGAGGTACACCCAGCTTTGTC  
TCCTGGCCCCAAATCTCCTTTTCTTACTTTGGGCATTAAGTCTGTTGA  
GGTCTCACAGCCTGATGGTCATTATCCCTGAATGGCATAAATCAACAGGC  
TGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTCAAACCCA  
TGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGAC  
TAAAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAG  
GCTACGAGAGGCCATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTG  
ATCCACCGCACTTGGGGCAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTC  
TACTTTCTGCATCATTGGTTCTCCAGCTCACTTCCATAATGTCTCCTA  
GGCTGCATTGGAATTGTGTGTTGTCTAGACCCATGGCCAACACTGTCATT  
GCCTGTGAGGGAGACCAAGCTTACCACCAAAGGCTTTTGCG

>Sequence 354

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TTTTTTTTTTTTTGCCTTTAGAAGGTTAAAATGCCAATATAAAGCTAA  
AACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTACTGTTTTTAC  
TATATAAATCTTTACGTGTTAATGGAAAGAAAATTAATTCATTCTGTAC  
TCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAGGGGC  
AGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACA  
GATATTTAACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCT  
CAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCACATCTCCAT  
GAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAACAAGTCAAA  
ATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCATCAGCTCAC  
CTTTCTTCTTATCAGAATCCACAACCTGCTTTTTTGGTTTTTCAACAGTG

>Sequence 355

GCTGAGATGAGCTCACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTCG  
CCAAAATGACGAACACAAAGGGAAGGAGGAGGCACCCGATATATGTTT  
TCTAGGCCTTTTAGAAAACATGGAGTTGGTCCTTTGGCCACATATATGCG  
AATCTATAAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAA  
AGATTCAGGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTTT  
CTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTT  
ACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGCTTGTCTT  
TCAGCAAGGACTGGTCTTTCTATCTCTTGTACCT

>Sequence 356

GATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGA  
TCTGCGTCGCAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGA  
AGGGTGGCACAGAGATGGTGTCTACAATTAGAGACATTTCTGACTCCACC  
TTAGCCTAAGCAAACCTTTATGTACTGAGTAACATTTGAAGGTTGTCTTTT  
AATGGTGGGGGGTGTTTTTTCTTTTAACTACAGTGCTTGCACAAGAG  
AGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGC  
CTGGGATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCCTCCCCC  
ATGTTTGATTCAAATTCATGAGTGACCTACCTTTCCCCAGGAATGGGAC  
TGAGAGGGTAGTCTTCCAGCAACTTAGTCTGCACAGGGCTCCCCGTTTCA  
GCTGCCTTTGGTGGTTGTGCTTTTGTAAAGTTTCTTTCTCTGCACTTCGAC  
TTACCTTTGAATCAGAAAGCAAGCCCAGCAGGTGAATGAGGGATGTCTGT  
G

>Sequence 357

GATGCAGTTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACCATCTG  
ACTTGGCAATGTAAGACACACACGTTAGTGTGGGGCACAAACGTGGAATA  
TTAGGAGAGAGCTGGTTCCAGCACCAAAATCCAGAGTCACTCGGGGAAGGA  
GGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAA  
CATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCATTTTG  
TTCCCCATTCTCTAATATGTACCAATTCTGCTGATACATTCTTTGTAA  
TCTCTCCATCTATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCA

Table 2

TCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATTAAGCCCTC  
CTTGTGGAGGCATTACAGTCTGGTTTTAATACACAAACCAACAATTATA  
ATACACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCTGTACCT

>Sequence 358

TGTACGATGAATCGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTCTAG  
CAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTTCAGCCCCCTC  
TCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGATCTTGGAGAC  
CAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGCTGTGGTG  
GGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCC  
CTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACC  
AAGTCAGGTTTGGCAGTTTTTGTCTGCCCTTTGCCCAAGGCTTCAACAAAA  
CCAAGCTGGTCCCCTTGCTTGGTTGGGTCCCAACCCAGGGGGGATTGGG  
GTGGGTGGATAAGAACCCACCACTTGTTTTTTCCCCCACTTTTTTTATTA  
GGGGAGGGTTTTGGGTTTTGGTTGGGTTTTGGGGGGGAGAAAAAAAATC  
CCACCTCTTTTTTAACTGGAAGGCCCGGGGTCCAATTTAATTTTATT  
TGGACCTCTCTTTTCGGGGTAAACAT

>Sequence 359

ATATGAGCTACCGGGTGGCGGCCGCCCGGGCAGGTACTGGTGTGTGATC  
GGAACGTGTGATCCCCTCTTCTCATCACTGCTGCTCCAACCTGGATTAT  
TACTCCGGGAATGGTAGAGAATAAAGATTTGTAGGAAAGGTGCTGAACTG  
CCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTAC  
ATCACTGAACGACACCAAGCACCCCATGCACCTTCTGGGTCCAACCTTGGC  
CCCTGAAGAAAGACACTGAAAATTGGAATGCAAGCTACTTCCGTAGGGGG  
GATTTCTTTTATAATGGTAAGGCCCTTTAAAAAAGGGCTTAACAACAAAA  
AAAATTTTTTCCCCCGGGGGAGGTGTTTTAGGGGGAAAAAGGGTTTTTCC  
CCCGGGGAAACCCCCCCCCCTTTTTCTGGGAGGGAAAAATTTTTTGGGTC  
CTGGAAGTTTTCAAAAAATAAAACCCCCCTTTTGTTTTTTAAAAACAAC  
ATAAAAGGGGGTTTTTTTTTTTGAAAAAAAATTTTAGAAC  
CCCCCTTGTGTGGTTTAAAAG

>Sequence 360

TTAGGACTACGGGGCGGGCGGTCTCTGCAAACTAAACACGCCCCGAGGA  
AATTTGGCCAGTTATCCAATTGATGAACTAGTAGATAGAGCCAAACAATC  
TTTTCAAGAGGGTGTGTGTGAGATATGGTTGACCAGTGAAGACACGGGGG  
CTTATGGCAGAGATATTGGCACCAATCTGCCCACTCCTGTGGAACTG  
GTTGAAGCGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAATCC  
GCCCTATATTTTAGAGCATCTGGAGGAAATGGCAGAAATCCTTAATCACC  
CCAGAGTCTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGC  
GTACCTGCCCC

>Sequence 361

GTCGACGTGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACTTAAACCA  
AATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAG  
TCAGCTTGCAGCCATTCTCCCGCGTACCAGCACAAACCGGGCCAGCCTC  
CTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGAC  
CGA

>Sequence 362

GTCGAGATGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACGTATGCACA  
GCCTCACACTCTATAAATGTATGTGTCCTGAATTTAGAGCTTAATAATG  
AATTATGGAACCTTGATAATGATTGGATCAGGCAGACAACACCTGATCAGT  
CCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCTGAGGTGAG  
GCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAAA  
TGTAACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATT  
GTGGGACATTCCACAACTTGCCTGAACTCTTTAATAATGTCAGTGTGAT  
GAAAGACACACCACACACACACTGCACATCATACACAAACACCACCCC  
ACCACCCACCACTCAGACACACACAAAAGGGCAACTCTAATCAATTAAG  
GAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTGATTGGAT  
CCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Table 2

## &gt;Sequence 363

GCGATGAGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTAATAAAACCAA  
ATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAGT  
CAGCTTGCGAGCCATTCTCCCGGTACACAGCACAACCCGGGCCAGCTCC  
TAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGACC  
GA

## &gt;Sequence 364

GTTGCGTGAGCTCACCGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGGAA  
GCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGT  
CCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACA  
CGCAGAGGCTTTTACGACAGCCAGGGTGCCCGGGACTGAAAACCTCTTC  
ACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGATGAAA  
GCAGAGCCCATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAA  
AAAAAAAAAAAAAAGGTTCTGCCCCG

## &gt;Sequence 365

GATTATGTGAGTGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAGC  
ACTGGGTAAGGCACCTTTTGTGGAGCATTAGACAGTAACCCTCAAGGAGCT  
AGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGTTCCTCCAG  
AGTTTCTATTTGTTTTGTTTTCTTTTCTGTGACTTATTTTCTATTTTCT  
TTTCTCCATGTAATTTTCACTATGGCCCACTAATAAACAACCTGGAA  
ATTACAAGGAAAAAAATTTCTCTCTAATAACTTTCCAAATTTGTGGAA  
TATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCATTAAAAAT  
TCTCCTCCTTTGACTACACACACAACACAGTGTGGTTCTAATCATGGAG  
ATATCAGTAATTTTGTAGTAAGTGAATTTTGGAGACATTTCTCTGTTTAGC  
ATGTATGCAAACTGATATGTAATCCGGGGTTCCAAAGTCAATTTTTTTCT  
TTTTTTTTGAGATGGAGTCTTACTCTGTAC

## &gt;Sequence 366

TGTGACGTGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTAATTTGCATCC  
TTCAACCCAATCAAGCTGACACTCAGTATTAACCATCACAAGGCGTGAGG  
ACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAAATAGTCCCACACCA  
AAGTCAGGATCAAATGATTCTTGACAAGCCACCAAGTCAATTCACCTGA  
GAGAAAGAAGCCTTTGCACCAAGTTGGTGCTGGAAGTTCTGGATATGCACC  
TGGATAAGTGAACCCCCCTCCGTCACCAACACACAAACGTTAATTTGAGAT  
GGATTGCAAAACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACAT  
AGAATATTTTGTAAATGTTATGATAGGCAAAAGTCTCTTAGGACACACAAA  
AAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCAGTGGCTCACACCTT  
TAACACCAGCATGTTGGGAGGCTGATGCAGGAGCGTCCCTGAGCTCAAGA  
GTTACAGCCAGACTGGCAACATAT

## &gt;Sequence 367

GTATGATAAGAATCGACTCCACCGCGGTGGCGGCCGAGGTACATTGAGAT  
TCAAGAGAAAAAGTCACAGCAGGTCTGAGCTCCTCCAGCAGGCCTTATGTA  
ATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGATGAACTGGCTGAAT  
GAAGTGCATGACAACTGAGCAAGCTCTCAGTCCAGGATTACAGCACTGAG  
GGGCTATGGAAGCAGCAGTCTGAACTTCGGGTTCTGCAAGAGGACATCTT  
ACTCAGGAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTGAAGTAC  
TTAAACAAACCACAGGTGATGAAGTTTTAATAATTCAAGATAAATGGAA  
GCCATTAAAGCAAGGTAAGTCCAGATACGAATTGAGCATACCACAAAAAA  
GTTCTCATTTTGTGTCTCTCCATCCCATTTCTCTCACTAACCAAGGCTA  
GGAATTATCTGTGAATGTAGGACCACTGGATTTGCAGTCTTCATCTGACA  
ACTGGGGAGAGTTTCTAGGAATGAAAT

## &gt;Sequence 368

GATGTTTATCGACTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTCAATGTG  
CCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAG  
AAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTACCTGGGGT  
CCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGCATCGCCC  
ACAAAC



Table 2

## &gt;Sequence 369

TGTTGTGATCGATCGACTCACCGCGGTGGCGGCCGCCGGGCTGGTACGC  
GGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGACAGGTGG  
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAG  
ATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCAAACA  
TGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAATCCTT  
AAAAGAGTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAA  
GCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGAACAT  
CAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAG  
GATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGC  
CCTCACCAGAACCCAGCCATGTGGTCAGCCTGATCTCGGACTTCACAGCC  
AGCAGAACTGTGAGAATTAAATCT

## &gt;Sequence 370

CAGCCATTTTATGATAAGGCCACGGTTGGGCCGGTTTAAACAAGGGGGT  
CCCCCGGCGTGGGGAAGATTTTATTAAGCCTTTTTGTACCCGCCGCCTC  
CAGGGGGGGGGGCCCGCCCCCCCCCTTTTGTTCCTTTTTTAGGGGGGGA  
AAATGGCCCCCGGGGGGAAAAAGGGAGAAAAGGTTTTTGTGTGAAAAA  
AGGGTTTCCCCTTCAAATTTTCACAAAAAAAAGCGGGGGGGG

## &gt;Sequence 371

GGACGCGGAGTTGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGAT  
TATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGTGAGTG  
GCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGA  
AGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTCGTT  
TCAGAAACGATTGGATTTTCAGATAGATTGTCAGTAAGAGAAATAACAAGT  
CTTTATTTTTTTCACCTCCCACTTCTTTCTTGACATTTTTCTTCTAGCTA  
TATTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTTACAATC  
TTTTTCCACTTCACTTTGTCTGCANAGAAATCTACCTGGACAGAATAGCA  
TCTTTTTTTTTTCCCCCTGACCTTGGCATTTCCTCTTCTCCAATTCTG  
CCTGATCCTAGGATGGACTCTCTCATCCCTCATTCTCTATCATTAGCTCT  
CAGGCTGG

## &gt;Sequence 372

TGGACGATGATTGAGCTCACCGAGCGCGGTGGCGGCCGCCGGGCAGGTA  
CGCGGGGATGTCTCTTGTACGCTGTCTTTCAGAAGACCTGGTGGGGCAAG  
TCCGTGGGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAACCTATCAT  
CGACGTCTACCACAAGTACAAGAGATAGAAAAGACCAGTCCTTGCTGAAAAG  
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAG  
TCAACTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAA  
ATTTGACTTTCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTG  
GAGTACCT

## &gt;Sequence 373

TGAGATGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAAT  
GGAAAGCCTGGAGAAAGAGGATGAAATGACGGATGAAGCAGTTGGAGACT  
CTGCTGAGAAGCCTCCTTCTACTTTTGCCCTCACCTGAGACTGCTCCAGAA  
GTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACGAACCCTTCAAT  
CAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTCTGGGGA  
CACATTCAGGATTTCTCAAAGCAGGTGAAGGTACCTGCCCCG

## &gt;Sequence 374

TGAGATGGTCACGGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTC  
CTTGTGAATCTCCTCACGGAGGCACTTGGGAGAGTTAATGGGCAGATGGA  
AGGAGATGGCAAGGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAAC  
GCTAACGGAAAAGGGCCGCGCCGGGCTGGTGGGCCAGACAAACCAGACAT  
GGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAAATTAATTGTAA  
AATAGCCTCAGGCAGGTCCCTTCAGGAGGTATCCAGAAGAAGGCATTGTGA  
TCATAGGAGCTGATGGCTCCGCCTGGGTTACTGCCCTGTAGACTTCCAG  
TGGGACAGGATATGGAGGTGGAAGACAGTGACATGGATGATCCGGACCTT  
TGTAGGTCTAGGCTAACGGGGGTGTTTGTGTCTTAGCTTTTAACAAAAA



Table 2

AGGTTAAAAAGTTAAAAAATAATAAAAAANTAAATTNTAGGTACCTG  
GCCCCGGCGGCGCTCTAAACTTGGGGAATCCCCGG

>Sequence 375

GATGCCCCGGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCC  
TAGGAATCATTTTACTGGAAATGTTCTCAGGAATGAACTGAAACATACA  
GTCAGATCTCAGGAATGGAAGGCAAACAGTTCTGCTATTATTGATCATAT  
ATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATTCAGCCTATCACCTAA  
GAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCT  
GCTGAAATGGCATTGTGCAGCCCATTTCTTTAGCATTCTTTTGCCCCCTCA  
TATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATG  
TGCTGGATGATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGT  
AGAAGATGTAAAGAGGGAGTGTCAAAAATATGGACCAGGGGTATCTCTA  
CTTGGTCCAAAGGAAAAATCCTGGCAGAGGAACAGTCTTTGTTGAGTATGC  
AAAGGCTGGGGATTCAAAGTTGCGCAGAA

>Sequence 376

CACATCTTATAATTATTTATTTTCACTACTTATTATTCTAATTTATACAC  
AATCTTTCTTATTTATTTATTTCTTTTCTATTTATTTACTTTTTTATACTAC  
TTTTTTTCAATTTTGAGATGGAATCCCCGCGGCGCTGCCTTGTTCTTTTA  
CTGCCCAGGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGG  
GATGAGGGGAGCACGCAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCT  
AAGGTGTTCTTCTACCTAGCCTAGTTTTTTTCTACCAACCTAGTTCACC  
TAGTTTCTGCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAAT  
ACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAA  
AACAGAGATCATATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAA  
GTTTAGCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGAC  
AGAATTTGTTATTCTTAAACCATTACTGTTTGTAGTGAGAGGGCAGATG  
TTAAAGTAGCTCATTGACGTTACCCCTTTTTTGAGTAAAGGGAAAAGGA  
GGTAAGATTCCCCAGGTCTTTGTGGGCCAGTAATTTTGCTTGAATT

>Sequence 377

TGTATGCGTGAGCTCACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGT  
GCTGTGTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAA  
GTGTTACATCACCTTTTGCTTGGAAGATTACTAAGAAGTCAAATAGTG  
GGTTCCTTAGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTCAGGAAG  
GCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGT  
TTCGTTGCTGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAG  
CTGGAAGTGAATTGTTTAGAGACTTTGGTACAATGTGGAATTTGAAGCTG  
AAGGTGTTGATCCGAGTAAAAGGAGCCCTGGCAATACCATGCTTTTTTTG  
AGAAAATTTTTTGCCCCCTGAAACCCCAAGTTTGTGTTGCCATTGTGGGA  
TTTTCTGGGCAGAGTGGAGTGAAGGGTCCCAAAGCCCAGAAGACACTGT  
TG

>Sequence 706

GGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAA  
CCATAAACTGCAAAAGCAATTTTTAAAAATGATAAATAGGACTTCATCA  
AAAAGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGA  
AAAATCTGATGAGACTTTATGTCTAGAGTAATGAATTCTTGTTAACGAAT  
AACCAACCCCTTTTAAAAATGGGCAAAAGATTTGAATAAACATTTCACT  
ACAGACAATAAACAAATGGCCTTAAGCACAAAGAGATGCTCAACATCAGTA  
ATTATTAGGGAAATGCCAATCAAACTACAACGAGATACCCTATATCCAC  
TAGTATGGCTATAATAAAAAAGAGTAACAAACGTTGAGGAGGATATGGAG  
AAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTCACACAC  
TTTGGGAAGCTGAGGCAGGCAGACTACTTCACTGAACCCAGGAGTTCAG  
AGTAACCTGGGCAACACCGCGAAACCCCATTTCTACAAAAAATTCAAAAA  
TTAATCACGCTTGGTGGTGGTGGCCGCTATAATCCAACCTTCTTAGGAGG  
CTAAGATGGGAGGATTGGTTGAACCCAGGCAGGTGGAGGGTGGAGTGAAC  
CAAGAAAAAACCGGTGGACCTTTACCCGGGTGACCGAGTGGGACCCTACT  
TCAACAAAAACCGAATACTGGGGCCCTATAAACTGGCCGTTTCTTAA

Table 2

CATAATTTACCTTGGT

>Sequence 707

GGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCTGCTACT  
TACACAGTCCAGAATCACTTGGTGAGCATTCCAGTAGGACGGTGGCATT  
TAGGATTGAGAATATTAACCTATAAACCTGTCATTTGATTCTTGATTATT  
AATGTCTGGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAAT  
ATATTTGAATTAATGTATATTTTGAGAATAAAAAGGCTATTTCTAGAAAAT  
ATTACACACTTGTCTTATGTTAAATAAAAAATTTGCTATTTATTGAATATC  
CCTTACCCACCCTTCTTCCCAATGAAGATCTTATGCATACCTTCACTGGA  
AGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCATTTC  
TCTGTTTATATTTTGAACCGCCAGAGCAAGGGCCATGCCACCTTTCTCA  
TTGTACCTGCCCCGGCGGCCGCTCAAAGG

>Sequence 708

ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTTCGGAAGCAA  
CAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCTATATCAT  
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA  
GAGTGGTAAGTGTCTTACATTCTTTAAGCACTAAAGAAAATTTTAATT  
AGCTACCTTGCTTCCAGTAATCAAAGTCTAGAGCTCCTCTGCCTTGTTAAG  
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTACTGTGA  
GCCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATT  
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTTGAGT  
ATTTACTTTGAAAGTTTGGTTCGACCTAATGATAAATTTAGAGTTTATTT  
TCCTTTTACAAGCTTACTGCATTGCATGGTATTTCAGTCAGCTTTTGATGA  
AGCTATGTCATACTGGTCGATATCATCCTTTCAAAGGGTATTGGTGGCAC  
TTCAAAGATCATGAAGAGCAAGGTAAGTAGAACATCCATACCCTCCTAAA  
CACTTTTGGACCTCTGAAAATGAGCTTGTTTTTAGGAAAATGGCTGGGG  
ACTTTCTAAGGGGTTCACTTTTTCATGGATGATGCTTTGTTGAACTGAAA  
TCATGGAATAGAAGTGGAATAATACTTTACATAGGACAT

>Sequence 709

GGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAAGTTGTTAGA  
CTAATTTTCAACAAAAATTTCTTTATTGTCTTGGTAACAAAAGAAGCATA  
CTAAAAATTTCTCAATAAGGCACAGTGTCTCTAGAAGCTTGAGCATTCAAC  
ATAAACTTCTAATTAACACGAACCTGTGCTCTTATTTTCAGCCATTGCTGT  
GTGGGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTTACAATGAATTACT  
TCCATCAGCTGCAGAAAATTTCTAGTTTTGGGGAGACAATTACAAACAT  
GTTTTAT

>Sequence 710

ACGGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC  
CCAGAGGCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTTCAGCA  
TGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC  
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA  
GAACTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATA  
TCTCCAGTACC

>Sequence 711

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGATAGCCATATACCAAATAA  
ATGTTCTGTGACTAGGGGTATGGCACAATGGGTATTGAGACACTAAAAA  
CTCTGCTTCAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCCT  
AATTTTCTGATTGACATCTTTTGGTAGATTATCGTGTTTTACTTTATGT  
TATTGACTGATCCTTTAGAATGATTTCTTTTTGTTCTGGGAAAAAAAT  
GCATTCTAAATCAGATTCACTAATACTTTGATTCACTTCCAAGGATT

>Sequence 712

GGTACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTG  
TGATTAGGACTTCATTTCATGTATCTTTTGCTACATAAACCTTTGTAGAT  
TAAATGGAAGACACCTGCTAGGTGATACTTTTATAAAACATATGAGTAA  
GTCATATATCTTTGTAAATTTCTGTATGTTCTTTTTTGTATAAAGATGG  
AGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAA

Table 2

TTAATTACTAAGTGATAGAAAGTATTCATATGCCATTAAAGATTTGCCAAT  
TCTATTTG

>Sequence 713

ACTGACACAAGGACTCCAGGCCACACATATCTTCTTGAAAGCCCTTTTCC  
TGTTTGAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAAGGCCACAA  
AATGAATTGTCTTCTTGTTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGC  
GATGCTGACCTTGAAAGACAGAAATTTTCAGATTGAAACTCAACGGACC  
CCAGGTAATTCTTTGGCTCAAGACCTGGGTTGCTTCATTTCATATTTTCTT  
ATTCCCCAGCCTATAAGAGCATATTTGTGTCTTGTAAGGTGCCTGGC

>Sequence 714

CCCTTAGCGGCCCGCCCGGGCAGGTACATATGCACTATTTAGAATATGACA  
TTAATCAACCACTAGAAATTAATAATCAGGTTATAAATCCTCAAAATCACCA  
GAGTATAAATTTAAATGAAAAACCCAGACCACAGAACAAAAACAGAAATA  
CCAAAAATAATCACAAATATTAATAACAGTATATAAACACAGTGACAG  
AATTAGGACTAAACATATCTGTAAAAACAATAAATGTAAGGGTAATCTCAC  
CAATTATGAAAAAGACCTTCAGATCATATTTTAAACAAATTTAAAAACT  
CAAC

>Sequence 715

GGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAATTGGTGTAATAATT  
TGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAATGT  
GGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTT  
TATACTATTCATAGCAAGA

>Sequence 716

ACAGTGGTGTGATCTTGGCTCATTTGCAACCTCCACCTCCTGGATTCAAGC  
GATTTCTCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCTGCCA  
CCATGCCCCGTGAATTTTTGTATTTTAGTAGAGACAGGGTTTCACCGTG  
TTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTGCCTACCTCG  
GCCTCCTAAAGTGTTGGGATTATGGGCGTGAGCCACCATGCCCACCTCCT  
GGGTCATTCTTCTGGATATTACCAGGCATTTTTATGCTGATCTAAGTGAA  
AACCTGGATATTTTTTTCTCCAAAGTTATTTCTTAGTTCTACCTATGAC  
ATGAGGGTGATCTTTATAATTTTTTTTGTCTTACTGAAGAAATAAAAC  
ATTGCTTAAGGGAGAGTTGGGGGAGTGATAAGGATCTGCAGTTGGGACT  
GGATTTTTCGGGTTGTTTTACCTACAGCCTGGTTCTGTCCACCTTTCTG  
AGGATTTTGTTCGCCCTTTGTTGGTCACCATGAGCATTTCTTATGGGAA  
TATTTGTGAAAGAAAAAACACCTTTTTTTTAAACACCCCAGTTTCATGTTA  
TTAACAAGCAGAATTCACCTTAACGGCTGTACCTTGGTCGGGAACACACT  
TAGGGC

>Sequence 717

GGTACTAATCTAAATGCTAGACAGTTCAAGTGATGCTTTGGAGACTTACA  
GATAGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTTTG  
GTGGCCAGCCTCCAAGATGGTCCTCAATGATCTTTGCATCTTCATATTTT  
CACCTGTGTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATC  
ACCACATGGCTGCAGTAATGGTATGTCACTTCTGAACTTAGGTTATAAAA  
GACTATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTCTGATCTTACA  
CTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTG  
AAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGGCCTGCCAA  
CAACCATGTGAGTGACCCCGAAAGAATTTTTTCAGTCCCAGTCAAACACT  
GAGATAACGGCAACCTCAGCTGACAGCTTACCTGCAACCTGATAAAGACA  
CCCTTGGCCCGAACCATAGGAACCATTTCTACCCAAATTCCTGATCTTTA  
GGACCTTGTTAGATAATAAATAATTTGTTTAAAGCATGGTTAATTTGTGGCA  
ATGTGCTATATAACCAATAAATAATACATGGCGGATAGAAATTTCTTTTC  
CTTTGGACCAACCGCAAAGTAACCTTTTTTTCTTTACAGCCAATTTCC  
TTTGGCTAAATACTGTACAAAAGAAGTTCCCGAAATATGAAGGATGGGGG  
CAGGTTTTGC

>Sequence 718

CCCTTAGCGTGGTCGGTTTCGGGTATTTGGGGCGGGATAAACATGGCGAC

Table 2

GTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGCCG  
GGAAGCATCAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTT  
GAACACGACAGGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTCACACTC  
CAGTCTGGGCGACAAGAGGGAACTCCATCTGAAAAAAGGAGAAATTCT  
TTTATTTTCTACTTCTCTTCAGATTTGTCTTATGCATTTTCCAACATATGT  
ATGCATCACAGCTATTCTTTTTCTGAGTTATAGCTACAGTTTTCCTACTG  
TTGTCTTCATGCCATTTTCATTTACATGGT

>Sequence 719

ACTTNNNTTTTATTTTTTTTTTTTTTTNGGAGACAGGGTCTCGCTCTATCA  
CCTAGACTGGAGTGCCTGGTGAATCTCGGCTCACTGCAACCTTCACACC  
CCAGGCTCAAGTGTCAATCCTCCCGCTGAGTAGCTGGAACCACACGTGC  
GCACCACTAAACCCAGCTGTTTAATACACCATTTTTTAACCCAAAACATTA  
AGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACAGACAAGCT  
TACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTAAC  
TTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTAC  
AAATTACATATACAATGCCAAAAATATTCAAAAAATAACATTTTTTGCACC  
TTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAGAA  
TCTCCTCATCACATACTTTCAAATATCTTCCCTTTACTTTCAATGAAATT  
GTACGCGGGATTCTATGGTAATGATGACTTGCCAATGTTCCAGGTGGTTT  
CTTAGCTAAAACTAGAGAATGCCCTAACTTAGATGGTTTTTTGAAGGCT  
ATTACAATATGGTATTGGTTTGAACCCCTTTAAAGCTTTTTTACCAAT  
TTTTCTTTTAACCCCTTGGGGGGGGGGGACCCCAAAAAAAAAAAAAAGGGC  
CTTGTTTTACACCCCTTTTCGGGGGGGGGGGGGGGGGGGGGGAACCAACC  
CCCACAACCGCCCGCC

>Sequence 720

GGTACTTGAAGAACATGGTAAAAATATGTTTACAATAATATTTTATCTTA  
GAAATGTATTAGTAAAAAATCTCTTTANTTCAACTATCCTCTTGATTCA  
GGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGA  
TAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTTGG  
TCATGTATTAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTTAAAA  
GTTTCTCTATTTTATCCCCATGATAAAAAATTATATAGAATAAAAGCTGA  
ATTGAACTTTCTTACAGCACACTGAAAAATATCTTCTATAGCATTAAATC  
AGATCACAGAATGCATATTTAAACAAAAATTTGACTAATTTAATTTTTAT  
TTATTTATTTTTTTCTGAGACCGAGTCTGGCTCTGTGCGCCANGCCTGA  
GTGCAATGGCNGGATCTCAGCTCATTGCAACNCTNCGCCTCCTGGTTCAA  
GCCATTCTTCCCGCTTGCCTTCTAAAGTGCTTGGATTGCAAGCCTTTTG  
CAACCTGCCTGGCCCCAGAAAACTGGTTTTTGAATGTTGGGTGTTTGG  
GGTTTTTTTTTTCCCTAAAAGCTTAAAAATTTCCCTTTGGTTTTTTTTCA  
AAAAAAAAAAAAAATTACCCTTTTTTTTTTTACCCCTCCCTTTTTTTTTTA  
AAGGGGAAAAAATTTCCCCCAAAAAAAAAAATAAAGGGGTTTTATTGTGTG  
GGAAAG

>Sequence 721

ACCCTTGAGCGGCCCGCCGGGCATGTACGCGGGTTAACTATGTTTTCTT  
TAACAGAAAGTTCTGTTTTGTGATCCTTTTAAAAATAAAGCTTCACGGA  
AGGATGAGAATAGTATTTTCAACTTTAAATTTCTCATTACCAGAAGACC  
ATGTGGTAATCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCC  
TAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTAT  
TACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
GGCTGAAATATCTGCCTGTTTCCCTCTTTACATTTTCTGTGTTCTTCC  
TTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAGTGAATTTTTTAAT  
GAAAACAAGTCCAAGTTTTACTCTCAGTGGGTTTGGGACATCAGATGTAA  
TTGAGAGGCCAACAGGGTAAGTCTTCATGTCAAGTGTGTTGTTGAGGAACGA  
GCCTATGATGACGTTTTTCCCAAAGGGAACAAGGACAGAAGGGATTGTG  
TCATTTTTACATCTCGGTTCTGTAATACCACCTTTGACTTCATGGTTGAT  
CAGAATTTGAAGTCTAAACCGAACGTAAGCACTTGGGGGTATCGAATTTT  
AATACCTACCACAGTTAGGACAATTTTTTTTTCAAAGGGCCATTATTTTTT

Table 2

TGGGGCAACCCTGGGGGGGGGGGGGGGGCCTTTTTTTGGAAAACTTTGGGGG  
ATATATTCTTTTTTTTCCCCCCCCCTTTTATAAAAAAAA

>Sequence 722

CCCTTAGCGTTTTTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTC  
ATGCTTCCCAGTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAA  
GGTAACTTTTTCTTTTATTACTTTACAGAAATACTGTCAAGTCCAATAG  
AGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTTGAATCTCTGCTCTGC  
CACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTTAGCT  
CAATTTCCCCATCTGTAAAATAGGAATAATAAAAAATACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATTGTTTCT  
GTAATGGGCAAGATAGCAAATATTTTAGATTTTGTGGACCATGCAGTCTT  
TATCATAACTGCTTAACTGCCATTATAGTGAGAAAGCAGCCACAGACAAT  
ATGTAATGAAAAAGTGTGTCTCTGTTCCAATAAACTTTATTTTCAAAA  
ACCAGCTGGCTTGTACATCTGGCCTATGGGCCATAGTTTGCCCATCTCT  
AATGTAAAGAAAGGACTTTAGCCCAAAGCCACAACCTGCATAGTAATGCC  
TTAAAAAATGTTAACATCTTTACTGTTATTAATATTACTACTGCATCTAT  
TACAGTAGCAATTGAGTAATGAATACATGAATGTTATAATGGTAAATTAC  
TAACCTTTTAAAAATATTAAGCATTGGCATATTTAATACTTTAAATCTT  
TTAGGAAGATAGTTACCCTGCAT

>Sequence 723

GGTACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATC  
TCAGGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATTCTCTTCT  
AATTACAGTGTAAGCCACATCCCACAAGTTTGTAGTCACAGAACTGTA  
TCGTACACTATTTTTTAATTTTCAAGTTCCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTG  
TTTTTATTATTAATTTCTAGCTGTATTGAGCTCTGTGTCAGAGAAATATGGT  
TTATTTTAGTCGCTTGAAATTTAAGATCTGCTTAATGGCAAAATGGATGG  
TCAGGTTTTTGTAAATGGTTGCCAGTAAGCTTGCAGAAACATATGTACCTGC  
CCGGGCGGCCGATTGAAAGGGCTATTTCCCA

>Sequence 724

CCCTTTTCGAGCGGCCGTTCTGGCAGGTACTCCTCAGCTTGTGCTGCCCTT  
CTCGAATGACTCGCGTTTCTGCTTTTCATCACTACACCTCCCACCGCTCT  
CCATCACCTGCTCTGCTCTTATAAGGATCCAGAGAAATGGAATAATCTTA  
TTGCTGATCTATGTAAACAAGTTGAAGAATCGTCTGAAAGAAAAATACAGT  
GTGTCTAAACTGGAAAAGTCCTGTAATAGTTTGTTCATGAGCATTGTCAC  
AGTGGAGTTACTGTTTCATCATGGGGGTACC

>Sequence 725

GGTACTAACTATTCCTAAATATTAACACTGGTCAACTAAAATGCACAAA  
TTCATGAATTGGATTGCACTCAAACAAAAAATAACCATAGGCAGTAT  
CATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGA  
CTTTTCATATGTATTTTAACACTGTAGTAGGCTATCGGGTCTAGTTTAA  
CTTCATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAA  
ATCAACTATTAACCTCTTGCCTGAAGACACAAATGAAATATTCCTATTT  
TACAAAGCAAATTAGATTCCAAGATTTTCAAAGCCATACTCCTGCAGTT  
CACTTGGGTTCAAACCTTAAATCATAATAGTAATATACACATATTTACAT  
TATAACCCATTACACATTATTTTCAACTCAATGCAAGTCAAACAAAGGTT  
TCACAAAATAACCTTACTATGTGCAATACACTGGTATTTTCTATTCTACT  
CAGAATTTTTTAAATACCTATCATGAACCATTAATTTGTCTTACCACTAA  
TGGAGTGACAATACCCAGATTGAAAACTGGATTAAAGAAAGTAGTTTTTAA  
ACCCATAATGGTTATTTGGCATTACTTAGGCAAAAATATTTCTCGCTTTT  
ATAAATTCTTACCTTTTTTAAGCAAAACCTTTTTTAAACCAATTAATAATTT  
TAATGAAGGGCCATTTGACCGGTNAATATTTATTAGGGGTAAAAAACC  
AAAATTGGCCTAAAAACCTTCAACACATTCCATAATGGAAGAATGTGGC  
GAAATAAATGTAAA

>Sequence 726

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAATAA

Table 2

AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCCTTTTACATTTGGA  
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATNGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAA  
TTGTGACAAAGTGCCCGCGTACCTTGCCCGGAACACGCTAAGGG

>Sequence 727

ACATTCTATTGTTATCTCTATTTTTTGGATGAAAAACAGCAGCACAAG  
AAGTTCAGTAACTGGCCTAAGGCCACACAGCTTGTCTTCCTGAAGACTGG  
ACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGCTATTGGGCGCTTG  
CTCTATGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC  
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCCACTTTGATATGTGGTCCATAAAAC  
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAATGATTTTCATGTTG  
GGCAAATTCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCTGACTAA  
CACAAATGAAGGTCTGAATGAAGAAGTCTTACTTTTATAAAGGAATTTTC  
CCCTCCTCACCAATCCAAGTTTAAATGTTGATATCTCTGTTGCAAAAGG  
ATGATAAATAAATGGGTCCCTTGGTTAGTAGTGGGTGTATGGGTGTGGGT  
AATAAGGTATTGAATGTACATTTAATACTCCTTCTCATTCTATACTGGAT  
CTATCTTGAAATGATGCATTTTTCATGTTTAAACATCACTTCCTAATCCG  
ATATTTTTGTCTCTTAACTATTATAATTTCTTGCCTTATATAAATTATA  
TATTACTCTAATCGCTTGCTTCTTTCACTCTACTATTTTATCATCAACAT  
ACTATTCGGGTCTTCTGCTCTTACAACATGTAATTATTTCTCTACTGCTC  
GCTACACGACTGAACTTAACCAATATATCACTGTCTAGAAACTTCCAGCT  
TATCA

>Sequence 728

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GTGTTGCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCTGCC  
TTGGCCTCCCAACTGCTGGGATTACAGGGATAAGCCACTGTATAGAGTA  
TGAAAAGTATTTAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAAT  
AAAGTAAGTTCAACTAGAATCCTTGACACAACCTGGTTTTATTCCCAATG  
CCTCTTAAAAAGAATCGTTCCATGGGTGGCAGGAGGGGTGTTTTCATGGT  
GTGATGCACCGTGACTTGTTATTCAAGATGTAGTCCAGTGTTCCATCTAT  
CACGTTTTATACCTTTTCGAAAAAAAAAAAAAAAAACCGAAACCACAACCACA  
CAAAAATTATTCCAATTAATGGGATTCACAGCAACCTGGATGGGACTGGA  
GACTATATTCTAAGGGAAGTAACTTAAGAATGGAAAACCAACATATGTT  
CTCGCTCCTTAGTGCGAGCACTTATGAAGATTCCAAAGGCCATAAAATTG  
ACACAATGGACTTTTCGGGAACCTCGGGGAAAAAGGGGGGGGAGAGGGATT  
AAAGATAAAAAACATCCTAAGTTGGGTTACGGTACCCTGCCCGGGCCGC  
CCGTTCTAAAGGGGAAATTTAGACAACTTTGGCGGCGCGTACTTATGGA  
ACCCAGCTTGGTACCACAGCTGTGGTGAATCATGAGCATAACCTGTTT  
CTCTGGTAGAAATATTAATCCGTCTACAATTTCTCCAAAAATTTAGATC  
CGAAGCTTAAAAGGTAACCCCTGGGGGCCCTAAGAGAGAGCCAATCCG

>Sequence 729

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CACAGTTGGCCTTTTGCCATAAGGGAAGGGTATTGGAGAAGAGTCAACC  
ACCACTCATGCCTCTCCCTGCCAGCAGCACCTTGGATTTTCTGGCTT  
TATGCCTCCTGTTTCCCTGGCTGAGTAACTGCAGGCATTAGGTTCTCT  
ACACACGATATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACA  
CTGGCCTTCTTTCTCCTGAGCACTAAATCCTAAACATGCAACTTAAAA  
AAAAATTCTAAATGTGAACACCACCTTTCAATAATTTATTAATGTATC  
ATCCACCCCTTTTCTTCTTTCAACGCCCTTCTTTCTACCCAACT  
CCAATATACCAATTTGTTTGAACAGTTTACATTCTAAGTGTCCTAAT  
TGCTAAAGGAATGGATAAATTGTTGTACCTCGGCCGCGACCACGCTTAGG  
G

>Sequence 730

Table 2

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA  
AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCTTTTCACATTTGGA  
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATTGCAAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAA  
TTGGGACAAGTGCCCCGCGTACC

>Sequence 731

ACTTTTCTGAAGAATACATCTTTCGTTCAATGTGGTCGTATTCTTAATTTT  
TTCTATAATATTGCTTGTAAATCTTTAGAGTTATGGTTTCATTTTTTGACT  
ATTAAATTTGAAATTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA  
TAATTTTTTAATTAAGAAGACACTCTCAAGTGTGAACATAATTGTAGA  
GTAAATTCTAAGTGGAGGATATCGTAAATCTTTTTTGTCTTGGTATTGA  
CATGTAAATGTTAACATATGTGAATAATTCAGTCCACGATTGTCACAGGT  
TCTATGTCTTTACCTCCTTTCAAATACTTTCTTTAACAAATACTTTGAC  
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTTCGTTTAT  
GATTCCTTTAAATGTTTTCCAATACTTAGATACATCAAATTATAGGACTT  
CTCAATTCCATCCTATTGTTACAGAATAATAAATTAATCAGAATAGGAAG  
ACCCTTAAAGATCTTTCTCATGAGTTCAGATTTCCCAGATAATAATTAC  
AGAAATTTCAATTTGTACCTTGCCGCGACACGCTA

>Sequence 732

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GTTGCCCAGGCCGGAGTGCAGTGGCACAATCTCGGTCACTGCAAACCTCGG  
CCTCCTGGGTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTA  
CAGGTGCCCCGCCACCAAGCCCAGCTAATTTTTTTCTTTTTTTGTATTTT  
TAGTAGATACGGGGTTTCACCATGTTAGCCAGGATGGTCTTGATCTCCTG  
ACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCG  
TGAGCCACCACACCCAGCCTATTCTTTACTTTCTTAAACTTTCTTTTAC  
TTTACTCTATGGACTCACCTGAATTCTTTCTGCTCAAGATCCAAGAAC  
CCTTTTTTGAGGTCTGGATCGGGACCCCTTTCTGTAACACGACTGTATC  
CCCTTGGCAGACATATGAATCTGCACCCCGCTTGGTCTCCAATATCCAG  
GGATGAACAAGGGAGGAAACCAGGGAAAATGCTTACTGAGGCATCTTTTA  
TGAGCAGTCACCATGCTAGGCTCTTTACTAACATTGCTTTTTGCACTGTT  
CACACAAGTCCTGGATATCTTCAATTAGAAATGTGAAAACCTGAATCCC  
GATGAAAAGCCCCCACTGCTTTTGAAGTGGCGTGGCTTATATCGGGCTTTT  
GACCAAGATGGACTGAATGCCATCTTGTGTCAGAGGGACTTAGACATTG  
AGGGAAGTT

>Sequence 733

GGTACAAAACTATGTGAGAACGTATACTACTTCTCGGCCACAACCTACTAT  
TTTTAGATATTTCATAAAATAACCTCTGATTGTGTTTTACATTGACCCAT  
TCAGTTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAAA  
CTAATTTTTTAAAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGT  
AAGACTACTGTAACCTTGATAAAATTAACCTTGAAAAATTCACCTACTCCA  
ATAAACTATGATTTATGTAGCTCATAAGAGGGTGAATTTTGAATATTTA  
CTCTATGAAAAAGCCTAAGCAATTCAATAAAAACTTGATAACTGCACGTT  
TAGTTTGCAGCATCTTGT

>Sequence 734

CCTTTCTGTGTGGACGCCCTTTACAGGTACTTTCTCTGAATTTTCATTAGCTA  
CATTAATAAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTT  
TGCTACATTAATAAAATCCATTTGAATACACAGTGAACATAAACACAG  
AGTGGCTAAAAAGTCCCTTCATGCATTTTACTTAGCAGAGAGCTCTTGA  
GAAAGACCCAACCAATAAACCCCAACCAAGCAAATCCAGCTACTTCTCT  
AGCTGAGAGGGTGGAAATGACTCCAAAATATTGTTTCAAGCTCAAAAAGCC  
TAAACAACCTCCACATAAAANAACAAAAATCTATCTAATTGGACATTTAC  
CTTTTTGGAATAAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAAA  
GTACC



Table 2

## &gt;Sequence 735

ACTTTTTTTTTTTTTTTTTTTTTTTGTACACAGACACAGGCTGGGAATTTCC  
CAAATCTTACAAGTTCTCGTCCCTTTCCCTTAACAACCTTTTCGGAGTA  
TCTCCGTCCTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA  
CCTTTAACATTTTCAATTCACAGGATCTCAGCTCAGCCAAGTCCTCAGCCAT  
TTTGTAAATGAGGATCACTTTCTTCCGGTTCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCTTTTCTCTCTGAGCCTTCACCCGAGTCCCCATTGATGTCCGT  
ATTTTACCAACAAGCTCTTCACCGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGTCTGCAGCATGTACGCGGGGAAGCTCTGTTTGGTGCTTTG  
GATCCATTTCCATCGGGCCTTACAGCCCCGTGGTAGACTCCAGCAGCCAA  
GAATGGTGAAACACTAACGAGAGACAGATTGGTTTTTAAGAAACCCTTGG  
ACGCCTTGCAAGGATAAACCTGGAGTTAGTTGACTTTTACCCCCGGGGG  
TGGGGCCTCGGAAAAAAGAACAGCCCTTTTTTCAATTTCCCTTCTTGAAA  
GATTTCCAACGGGATTTTCTCTGAATAAATGTGGATGACTGCCCGGATGT  
TGCTTCAAAGGGGAAAAA

## &gt;Sequence 736

ACTTGTCTGCTTCAATAAAAATTTGTCTTTGATTTCACTGGTGGGAAGGGTG  
CTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTTCAGTTTC  
CGCTTTTATTTCTCTGAGGGGAAAAAAGAGCATACATTATAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGA  
ACTTCTACAAAAAGTTGGAAAGAATGCAAATTTAATAAAAAATTAGATGCT  
AAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAACTAT  
ATGAATAGGTACC

## &gt;Sequence 737

GGTACTTNNTTTTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCCTTTATTC  
GGTTTCTCAGTAACAGTGATGCATTAAAGAAATTCCTGTCTGCTAAACTTC  
ATAGCAAACCGATCCCAGTCCCTACCTCATTGTGTGGTAGCCAGCAGCA  
GAGAAGATAGGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGAT  
GGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAG  
GGTTGATTGGCTGACCTAATGTATTTCCAAAAAGGAAAAATTTCAACAAGT  
TGCCGCATTATTTCATGAATGAAATTAGATATCATATCAAATTAAGAAAA  
AGAAAAAGCACCAGAAGACGAACTACATAAAGCATCTCTTTACTACAA  
AAAAAATCAGTTATTTTTCAAATATGAAACTTGAAATAATTGTTTCCTTT  
ACTCTTTTGGAGACTCACAAAACATTGGGTAATAGAATTCAAGTTCCCTA  
AGTGAAGATAAAGATATAGCAAATATGAAAGAAAGCCTAATTTCAAATTC  
ATGGTGTTACCATATACATTTTCAGAAATATTCCAGATATTTACACGATC  
TTAAGATATTAATACCTAAAAATTTACGATAATTTCTAAGAAAAATCTTAT  
TTAAGTATAAAAAATAATTTATTACCTATGGGACGTGTGGCCTATTAACCTT  
AAGGGAATCACAAAAAACACTTTTTATTGTCGAAAGGACCTTGCCCGGGG  
GGCCGTTAAAAAGGGCG

## &gt;Sequence 738

GGTACTATCTGCTCTGAATTAAAATTTAGAACAAAAATCACCTGCCGTGC  
CACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCA  
GTTACTTTTCCAATTATTTTTACATATACAAATATTTTCTTGGTAGAAGA  
ACAAAAGTGGCACTATTCAATGTGTAGTTTTTTGTAACTTATATTTTAC  
CCTAAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAAATTATTCATGG  
CTAAATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCCTG  
TCAGCATTTCTTTTATATATATCTTTTCAGCACATCTGCAATGATTTCTTTG  
GAATAAATTTCTAAAGTTTCCTGGATCGAAAAGATTCAGGGATTTTTAGT  
GTTCTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTTC  
TGAATAAACAAATTTCTTTTTATGTTGCATTTAAATCTACCTCCTTGTA  
GCATATGCAGGGAAAATGAATTATTTGGTCAACATGCTTTCAAATACTTG  
AAGAATGTCTATTTTTCTTTATGACTATTCTGTGTTCTGGACTATACCAT  
TATTTTCCCATGATTTACATTGGAAGGTGGTGATTCAAGCTCAATGCATT



Table 2

AATTGCTTCTCCGAGGTTTTTAATAATAGATGAAGTGGTTAGCTTCTAAA  
TAAAGGATATTGTAGGTGGAATGTATAATATGGCCTAAGCCCCGACAACCT  
CCCTTGGTTTGT

>Sequence 739

CCCTTAGCGGCCCGCCCGGGCAGGTACACAGTTTCCTTCTTCGAAACAATC  
CAGAAGTAGGCTAGCAATGGTCACCCCTACATACTCCGCACACATCTTT  
AAGAACAGGACACCATTACCACACCCAAGAAAACCAGCATTTAATGAATT  
TATTCAAGAGTATCATCCAACATACTCAAATATCCACAGCTGTTCCGAAA  
GTATCCTTCAATTCTGGATCCATTGATGGTTCACAGGTTGTATTTGGCTG  
TTACATCTTTTTAGTTGTTATCCTTCAGAGTAAAACTGGCCTGCCCTCT  
TTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGA  
GCATTCTCCATTCTGATTGTTTCCATGTGACCAGATTCCGGGTCACAA  
ATTTCTGGCAAGAACCCTTCACAGATGACCATGTATTGGTTATTAGGTAA  
CAATAGATTACTCAAGTAGAGAACTGGGAAATTGTCCTTTGTCCATTACA  
ATAAATTTTTTTGAAATCTAGAATTCCTTATGATTCATTGATTTCTTTT  
CTTTTTCTTTTTCTTTTTTTTTTTTGAACAGTTTCACCTTCGTTCCCC  
CGGCTGGAGTGCCATGGCACAATCTCGGTTAACTGGAGCCTTTACCTCT  
GGGTTCAAAAGATTCTCCTTGTTCAACCTCCTGAATAGCTGGAATATAGG  
GCCTGGCACCTTGCCCGCTGATTTTTTTATTTTAGTAAAAATAGGGTTAC  
CAATGTGGCCAGCTGGGTTGAACTTTTGAC

>Sequence 740

ACATTGTCTGCATTTTGAGATTTTCCTATTATCTTTCTGGTGTGATTTT  
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TTAAATTTGTTAAGGTGTGTTTTATGCTCAGAATGTGGAGTGGACTATTT  
TGGTGAGTGTTCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTA  
AATGAAGTAGTCTATGTATGTCAATTATTGTTTGATGATTGATGGTGTG  
AAATCAGTTATGTCCTCACTGATTTTCTGCCTGCTGGATATGTCCATTC  
CAATAAAGGTGTGTTAATCTCTATCTATAATAGTGGATTTATCTATTTCT  
CCCTGCAGTTCTATCAGGTTTTGCCTCATGTAGTTTGATGTTCTGTAA  
TGCATACACATTAAGGACTGTTAAGTATTCTTGGGGAATTGACCC

>Sequence 741

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GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
ATGAAAACAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCA  
AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACT  
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAATTGGGTCTTCTCC  
CCTCACCTGGTTTGGATAGGAGGGCCAGAAAGAAGTCAGGACAGACCAT  
GTGTGACTGTCCCTAACCCAAAGCAAGCTACCGTGCAGAACCCAAACCCCA  
GGACAATAATCCCAGCCATGCCGGAACATGGGTAGCTTGACCAGCACTC  
ATTACAACGATCCCAGCCTTTGTTTAAAGGTGCCAAAATTAGTTTCAAAG  
CAATGTCTAACCTTCCCCACCTTTAACAGGAAAGAACATTTTGAATAATT  
ACCAAAAGAAGTCCATGGACCTTAGAACTGACCAAAAAAGCTTTATCCTC  
TAAACT

>Sequence 742

GGTACAGGTTTCCCTTGCCCTCAACTTCTCATCCTGGGTGATGAGACTGTT  
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CTACTTTTAAAGAAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGT  
GCTTTTCTTGATCTGCTATTTTCAAGTGCTTTAACTCAAAAAAATCA  
ATATGCCAAAGTGCCATGTTTGGGGGTATCTGGTCTGAATTCCTTCAGG  
AAAGATAGAAAAGCAAAAGCAAAATAATAGGTTTAAACTAAAAATATCCA  
GGTGCGGTGGCTCACGCCTATAATCCCAGCACCTTGGGAGACTGAGGTGG  
GCAGATCATGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAAA  
CCCTGTCTCTACTAAAAATACAAAATTAGCCAGACATGGTGGCGGGCAC

Table 2

CTGTAATGCCAGCTACTCAAAAAGGCTGAGGCAGGAAAATGGGTTGAACC  
CCAGAAGCAGAGGGTGCAATGAACCCAAAACATCGCATTGACTTCAGCCT  
TGGCAACAGAACCCGACTCTGTTTCAAAAAAAGGAAAAAAAGGAAAAAA  
AAGTCCCTGCCCGGCGGCCGT

>Sequence 743

ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCCACACCCGGCTC  
CTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTITAGAGACCATCGCA  
GTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAA  
TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGCANAAGT

>Sequence 744

GGTACGCGGGTGTTTTTTTTTGGGTAATTTCTTGAGTTAGAAATGTAGT  
TAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAG  
ATATTCATTTATCTTCCTCGTATTAGACTGCTTGTATAGAGACTCAGTGT  
TTAGACATTCATTTCTCTTCCTTGTATAAGACTCCTTGTATAAGACTCGG  
TGTTCAITTTATCTTTTTAAATTAACCACAACAAATATATGAGTTTTTAA  
CCATTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCT  
AGTTTTAAATAATAA

>Sequence 745

GGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCC  
TAACATAATNCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAAC  
ATAACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCAT  
CTAGATAAATATCTATCAAAATTAACCTTAAGAGAAATACTCTCTTTCCT  
TAAAAGCCCTTATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAGT  
GGTGGTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATT  
TTTTAGTTTTCTG

>Sequence 746

GGTACTTTTTTTTTTTTTTTTTTTTTAGTTAAAATGCTTTACCTCAATGG  
TTGAGATATTTGAATGGATTTTTCAAGGGGGGGGAAATGCTTATTATAAT  
AATAAACCAAAATACTTAACAGAAAATTGTCAGCTATTCTGACAAAAATA  
AACATTTTGAGAGACTTTATTTCTTTTGTCCGTTTCTGTGGTATCACTCA  
TTGTCTGTTAAGTAAGTAAAGCTTTTTATTTTAGGTAAAGAACTGATTTTA  
TTTTTTAAATTATATTTTATATTTATTAGCACAGAAGAATAATGAGAGCC  
ACATTTTAGTTCAACTT

>Sequence 747

ACTCTTTTGTITAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG  
GTGGTGATGAGTGCTGGGAGGTGAAAAATTAATAAGCCATTTACCAGT  
CAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT  
ATATATTCATTTTCAAGCAGAGGAGTTCCCCATTTTAAATAGAGGCATTG  
TCTGATGTGTTTATGGTTAACTGCATCTGGCTTGGGTCTTTCTGTTTTCC  
TTTCTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG  
TGTGGTTT

>Sequence 748

CCCTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTCATTCAAGAAAGATAATTTTACACTTATTCTTTGAAAGA  
AAAATTCATGGAATTTTCTTCTCTAATTAATTCAAAATACATTCTC  
TCAACCCTATGCCCTCATAGTAACCTTGATGGTTAGCGGGTAAGTAGG  
TAGTAGTAAAAGAGCAAAAGGGGAAATTTGGGAGCAAAAAGGGAGAAA  
AAGAAAAAAGGGACCTTCTAGTTTCTAATAGAAAAGCTAGAGAATTC  
CATTCCTGAAAATTAAGATATTT

>Sequence 749

ACCACTCACTACATTACAAAATAGTCTCTAACATAAAAATTGCCTTAATAA  
CTATACTATTATAGAATCTGATAAACCTTACATTATTAATTTGATTATAA  
AATCTTCTTGAAAAAATTTGGTATGTATCTTCAGAAGGTTTTTTAAAAA

Table 2

TAATATTTTAAGGGCCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA  
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT  
TTATTATGTATTTGTAGAAAATCATTACCAGAGTAAGCAAAAAA

>Sequence 750

GGTACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG  
TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCT  
ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTGTCTGAATTAAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATA

>Sequence 751

GGTACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG  
TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCT  
ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTGTCTGAATTAAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATAGATACCTGACCC

>Sequence 752

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ACACTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATC  
TTTTATGCAATGTTATCAGGTAAAAAATGGCTAAAGTATATTAGCATT  
TACCCGAGTGGTATTCTTTTATAGAACTCAGCTACTAAAACCAGGGAGAG  
TACTTGGTGTATTTCTGAAACACTCTGCGAAGTTGTGGATAGCTTCTGGT  
GGTAAGGATGGTATTGAACACGTTTACGTCTGTCCCTTTCTCCTTTCTC  
CTGCTTCATACAAGG

>Sequence 753

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTATTATATAAAATAATAA  
TGCATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTG  
ACATATTTTCCCATCTTCTTATTTCAACCATTGACTGGTTGTCCAGCC  
CCAAATTGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCAC  
CTTTAAATAGTTGAGTTCCATCCCTTTAAATCATTTAAAAACATGATTT  
TTAAATTTATCTCCATTACCTTATTTGTGTTTACTTTTTTACTTTTATT  
TATTTCTC

>Sequence 754

GGTACTTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCCAGG  
GCTGTCAAAACAAATATCCATAAATGGGTGGATTAGAACAACAAAAATT  
TATCTCTCTAGAGAAGAAGCTTTTCTTGCCATTCCCTGGCTGCTGGTCA  
TTGCTGGCAGTCCTTGTCTTCCCTGACTAGTAGCTACATCATTCTCATT  
TCTGCCTCTGTCTTCATATGGCTGTCAATTCACCTGTGTGCTTGTCTCTGG  
GTCTTCAAGTGGCCTTTTATAAGGACACTGGTCATTGGATGTAGGGCCT  
ACCCCAATCCN

>Sequence 755

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AACCCAACCTTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGGGG  
TGATAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAAT  
GGGGTGTTCTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACT  
TAGCACCTCACAGATGCTTGGGCCTGGAATGGAAGCCATGAAAATGAAGC  
CCTCAGCCTTCTTGGAGATCAGAGCCATGGTCCTCACCCACAGCACATGG  
GTT

>Sequence 756

GGTACACAAAATATTAAATAGGATATTTATTTCTAAGCCAAATTTAGAA  
AACAATTTACAACTTTTTTAAAGTATAAACATAGTGTATGCTTACTAT  
AAAAGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGG  
CTGCTGATCCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACA

Table 2

AATACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTG  
AGGAGTTCAAGCATAGCTTGGTCCTCTGCAAGCTTACAATCCAAGGGTTG  
G

>Sequence 757

GGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTA  
TCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCTCTA  
TTCTCCAATGGAAGTGGAACAAAGAGAAAAACCCCTGTGTGTCCTAGCAC  
AATATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGA  
AAATGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGA  
AACTTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACA  
AGTCAGCAATGATGATGACAAAATATTTACATAATGTTATAGATGTGGCT  
TGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAA

>Sequence 758

GGTACTTGTTTTAAACAATGTTGGAAATGAGGAAAATGAGCAATATCAA  
CATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTAGT  
TACATAGTTCAGTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAG  
GTACGCGGGGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCC  
TGAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTT  
GGCCTCTGGTCTACAAAGATTTCACTAATCCTTGGAAGCTTCT

>Sequence 759

ACTCCGATTGCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGAC  
CTTGATAGATCCTGTCAGCTGATTGCAGTGCTCTTAAGTTCTCCATTGT  
GAGTTGTTCACTCTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTT  
TTCTGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCC  
CAGAACATCCGTATATATGTTTTTTCTGTTTCTAGATTTAAAAATATTC  
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA

>Sequence 760

GGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAATATCCTTAATTAG  
GTAAAAATTCCTTTAAATTAAGTAAAGTTTATGAAAAAAGGATGT  
TGAATGGATTGAATGCTCTTTTGCATCGGTGGATATATTTTTTTAAAT  
TTTTCAAGCGGGTAATTGGGTTATTTAATGGGGGGTTTTTTTTAAAGTTT  
AAGGGA

>Sequence 761

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ATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTCATAGGA  
TGACAAACTATTCAACCATTTATAAAGAAAACCGAATCAAAAGCACTGGCT  
TATTAGACAAGAGTTTCCCAAATCATGCTAAACAGTAACAGCGAGC  
TTCCAAATTAATGTTGCCTTTTTTTTTTTTTTCCAAACTGAAAGGAGGG  
TGGGGAAAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTG

>Sequence 762

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TTTTTAAGGAAAAAAATTATCATGGTTCTAATCTTACATGTTAACATTTT  
CTTGTTATGTAGGGATCAGACTTGTTATAACATAATCCACTTTATAATT  
CAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGTATGTAATATTTTATTA  
TTATTACCATATTGATATTCTCTATATAAAAAAATTTACATATTGTAGTT  
TTCAGGTAAAAGCTGTTGTGAACATTATTTTTGTCTAGTGTAGTTAATT  
TAAAAAATAAAACAACTGA

>Sequence 763

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GTTTGGGGGCCCCGATTGCCATGGACTTTGGCTTTTCTGGTGGGAACAA  
ATGGCCATCAGGTGGACCCAACCTTGACACATCCCAAAGACCTGGCACT  
CATCTTGGTATGAAGGGAGGTTAAAAATAAAAGTGGTTGAACATCCTCTT  
GGATGTGTTTAGGCCAACCTTGGTTACAAGACCCCTGGAATATTGTGTTT  
TAAAAGGGGGGTAGGTTGGGAATCCAAAACCCCTGGGGGACAAAATAAG  
TTTCATTCCGTAACCTGTTGAGAAATTTCAAAATTTATTGGTTCCCCCA

Table 2

GTATTGAATTAAAAAAAACCCAAAAATTTGGGGGAAGAAAAAAGTT  
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CC

>Sequence 764

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TCAAAGCAGTGGAGTAGGCAAAAAAAGAACCTCTTCATTAAGGATTAAA  
ATGTATAGGCCAGCACGTGTAACCTTCGACTTTAAAAAATTCTGAATCCCA  
TATTGTAGGTATGGTTTCAATTGGTCGTCGGCAGGGGGTAAGTGAATCCT  
TGGGCAGGTCAACCATAGCCTTCTAACTTTGTTTTTAAGCCT  
TTTTGATCCAAAAAATCTTTAACTTTTTATAAGGGAGCCAAGTTTTTTC  
AAACTTCCCTTAAAATGGTTTGAAATTATTAATTAGGTCCCAGGTAAAA  
ATTTCCACCCAAGGCCTTCCACCAGGGGAAATACCCAGGGAACCTTTTTG  
AAAGTGGGAAAAAAAATTTGGAAATCTTCTTGAATTAACCTTAAAAA  
ACCAATTTCAAAAAGGAAATTTCAAAAATT

>Sequence 765

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CCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTT  
AGAAAATCAGTATTTTCATACAATCAGCTAATAGCCTAATTTGTTGAGCAC  
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG  
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT  
ATACTCTCCGTCAGGAATTTTTGTTCCCTTGATCTTTTTGTGTTTATTGC  
CTTATTTATTGGGGCCCTCTCATAATAGGTGGGTTTTTCATCCTAT

>Sequence 766

GGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGTGGTTTGTGGAAT  
CCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTT  
AGAAAATCAGTATTTTCATACAATCAGCTAATAGCCTAATTTGTTGAGCAC  
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG  
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT  
ATACTCTCCGTCAGGAATTTTTGTTCCCTTGATCTTTTTGTGTTTATGCCT  
TATTTATTGGGGCCCTCTCATAGTTGGGGTTTTTCATCTATCGGTACTCCTT  
TTCCTGTCCT

>Sequence 767

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AAACAAACAAAAAACCCCAAACATTTTGCTGTTTCTTTCCCTCTGTATT  
TGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTT  
TATTAATAGATTAGTGGAAATTTTCACCTGGCCTATTAGCACCTTATAAA  
GAAATAGATTAAGAGTAGGAAATATATAGATGAAGATGTACTGTATAGAA  
GTTGTGTAAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGA  
TTTTAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTTCTTTTCTAA  
ACTGG

>Sequence 768

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TTTTGTTTATATGCGGATACAATATATACAATAAAACACCTAAACCGCAG  
AGGCTTGCTTGTTATCCACAATAGTTAATACCCAATAGTAATTAATGGA  
TGTGGTATGGTTAGACACCAGTACAAAAAAGCAAGCGGGACGTTATTTAA  
ATAGGGCAAGAACACCACAATAAGCCACCACCAAAAGGCAAAAAGGCAAA  
AAAAGCACCGCCCAAGTAAATTGTTTGTGGGATTGCCAGTTATTTCAA  
GAATTTTTGTTCAATAATAAGACAATTAATAATTTCCAGGTAGAACCA  
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CCGTCTTAAAGGGGGCGGAAATTTTCCCAAGCG

>Sequence 769

ACTTATTTTTTTACTAAGGTTTTGTTTTGGAGACTTGTTTGAAATAAAGT  
GATCCTCATTGAGGATTTAGAAACAAAAGTTATACTCCACATGCTAGGGA  
TTAGGAAGGCTAATGTGAAGTATCAAAAGTATGAATTATGGAATGCCTT  
TAGAATAATCACTTTTAGGTAATTTGATACTGCTATAATTCAAGCTTA  
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA

Table 2

GATTCACTAAATGTTCAATTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCACCAGGGATAAACAGTAGTCTGATAA

>Sequence 770

ACCTCTCATTTTGTCACTTTTCAACACTTCCTGGCAGGCAGGCAGCATAAC  
TGGTCCTGCTGGGGACCAACACACTCTGCAACTCTTTCTTCTGAGCCAGG  
CTCCCCACTGTCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG  
GCTCTTGCATCCAGTCTCACTTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
GGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCAAA  
CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG  
AGGGCAAGGGCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATAA  
TAGAGTCATGCATATTCACTAGGTTTGGGGGAAAAGCTATATATATTTAT  
GAGGGGAGCCAACTACATGGGCAATGGATAAACATACATGTAACACATCC  
CATGTTCACTTANGGGCAGGATTTTAGCATTAAATGAGGTGGAATTTGG  
CTCTTTACATCAAAAAGTGAGCTATCAGACACAAAGGCGGTGTGTGCACA  
AGCTCTCAAAGGACTNGAGGGCTACAAGTCTCATTTTGAAAGAAANTC  
TGTAAGACCAGCCTTGTCAACCAGATTAGGAGGCATCTGACAATTGCCTG  
ATAACTGTACCTCGGCGGGACACGCTA

>Sequence 771

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ACTTGTGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGTAAT  
CAGTATATTCTGGGAAAAACATTATAGAAGAAATGAATAAATAAAATTCCA  
TTGAATTTGGAATATGTTGTCCATTCTTCCCTGTAATAATGCTATCAAG  
ATAAAGTTAGAAATACCACATTTTCAAGAACAGCTGGAAGTAGACAGGGTC  
TTCATAGGGCTAGCTTGGGAAACCTAAATAGCTATTAAATAAATGAAATT  
TTTAAGTTATTACTTCTGGGAATTCTAAACAAATGAAACACACCAGTGAA  
TCTTTTTTTGACCTTGGCTGC

>Sequence 772

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CTGTTCCTTTGCCTACAAGAACATGTTTTCTGTTCCGCAAAGGAGAATA  
AGAAAAACAATGACCCCTTCCATTCCCATAACCCAAAACCTAAACTTCC  
AGGGAGTTGAATTAGAAATCCACCCTGTGGGGCATTTTTTTCCCCCAAA  
ACCCACCCCATTACTCTTGTAGAATTTCTGGATTAAGGCGGCTTCTTTAA  
AGAAAGCCCTACCAGGCTTCTTTCCCCCAATTACCCCTTATTCTGGAAAA  
AGCCAAGGGAAACCCCACTTGGCTTTTGGGTCCAGGGAAAAACCAGGGC  
CATTTACAAAACCATTCAGGAATGTTGGATTTTATTAATAAATGGGGCGC  
CACCAAATTTCTTAAAAAAGGAAAAAACCCCAAAAAAATAATAAA

>Sequence 773

GGTACTATCATCCCCAAGGCCTTTTACAGTCTGAAATATCAAAATTGAA  
AGCAAAAATAGGATGACCAAAGGAAGTACTATTTTACCTTCTTTTCAGGA  
ACTTCTACAAATAGTTAGAATACTAAAATTTCCCTTTATGGGAATCTTCA  
AGGGGGGGAATATAAATTGTGCCCATGTTTGGAAGGGGGCATACAGATG  
TATATGGATGTACCAAGGGCTCGGGCATTTTTTTTCAGAGATGGATGGGG  
TTTCATTAACCTTGAAACAAGGTAAGGCCAGTGTCTTCCCTTTAAAAACCA  
TAGGTCGTGTTTAGGCAACCCCAAGGCCACCCAATGGAACCTAAGGGGCCAT  
GGCCTTTTTAAAAAACAAAAATTTTTCTTATGGGAACCTTTAACC GCCC  
TTTCTTATGGGGGCCCTGAATTTATGTTATAAATTGGCTTTAATTGAAG

>Sequence 774

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GGGCTGCATGTTATTCCACAATAGGTAATAACCAAATAGTATTTAATGAA  
TTGTGTAATGTATGACAACAAGACAAAAAGCAGCGGGACGGTAATTAAT  
TAGGGCAGAACACAAAAAGGCACCAACAAAAAGCCAAAAGCATAAAAA  
GGCATCGGCCAAGTAAATGGTTTGTGGGAATGGCAGTAATTCAGGATTT  
TGGTCCATTATTAGAACATTAATAATCCCAGGTAGGACCACTTGCTAATT  
AAGATTTTTTTGGGTATTTTTTAAACCTTGGAGGACCAAAAAATTTGGGG

Table 2

## &gt;Sequence 775

GGTACTTTTTTTTTTTTTTTTTTTTTTGTGAGAGGGGTCATCCTCCAATCATT  
ACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTTAGCAAC  
AGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTG  
GAAGGTTCTTGATCGGTTTGAACCCCGACAGCGCGCCAACAGACAACAC  
GAGGCAGTGGGGAGCAACACGCTGTTTAAACGAGCGCCTGGGTGCAGGCG  
TGCTTGAGCTGAAAATGGCATTACAGCCCCAAGTGAGGACAGGGCAGGGGT  
TTTACAATCCCTTTGTAACAGGAAGTTGTTCCAGCCTGATATGATTGCT  
ATGTAC

## &gt;Sequence 776

GGTACTTTTTTTTTTTTTTTTTTTTTTGGNCTGCCGTGGAGAGGATG  
GATGGGAGGGGGAAGAACNAGAGCTTTGTTTAGAGGCTGTTGTAGTAATC  
CAGGTAAAGGCTTTTAATCATGTCCTGAACAATGATCAGCAATGGCAATG  
GAGATGACAGAACAGAATTTAAGAAGGAATAAAAAAGGCTTGCTGACTAC  
TTGGATGTGGGTGATGCTATCCTTTGACACAAAGGATTTAAGATGAAGAC  
CATTTTTTGGGGTAAGTAAAAGGTTTGGATTTTTTCATCTTACAGCTT  
TTTTGTACTATT

## &gt;Sequence 777

GGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTA  
CATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTGATCTTGATGCACTT  
CGGAAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACA  
GCCAGCTTGAGGCAGCTTGAGAAACAGAATTAACATTTTAGAGAATTGA  
AAAAAGAATGGCTGAAAGTAAGCAAGGGCTTAGTAGCCATTTAACCAAGA  
AGAGGCTTCCAAGGGGGAGAAGAAGCTTAAAGGCTTTACTAAACCTTTTA  
AGGAAAAAATTTTGAAGTGAAAGTCCAGTTCAAAAGTGAAAAGTAGAACT  
TTTGGGAAAAAAGAACCTTTCAAGAATTTTTGGAAAAGAAAAAAGTTT

## &gt;Sequence 778

GGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGAAGCTGGGAAGTA  
TTCCCTCCTCTTCTATTTTTTTGGAGGACTATGTGAAGAACTGGTATTAA  
TAAAACTCCTTATTAAGGAAATTTTTTAACATACCAAAAAATAGTAAGA  
ATAGTATCATGAGTTCCTGTGTGATTCCCGCCTAACTTCAATAATTATC  
AATAGTCCACCATTTCTATTTTACTTATACTTCCCCTCCCCAACACCTTA  
CTCTTTTGGCGGGGGGCTGAAATTAATTTAAAGTAAATCCCAAACATATCA  
TTCACCTTTAAATACTTCAATGTATATCTCTAACAGATAAAGACTTTTTT  
TA

## &gt;Sequence 779

GGTACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAA  
GAACAATGACTCTGGCACAGCCACTGCTTTTACCCAGGAAAGCAGTTTT  
TCACAGAATGGCTTTGATTATACCTTTGCACACCATTGAGAGAATAAAAA  
GAAAATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTT  
CATCAACTTTATGTGATAATGATATATAATTTATATACTGAAATTATT  
TTCAGATCCACTTACTGTGCTTAAACCGAAAGTGAATGATAAAGAGCAAT  
GAATTATCTAATGTATCTTTATAATTAAGAAATCAAG

## &gt;Sequence 780

ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG  
TCTAATTTTTTTTCTGTTGAATGGGTAAAAACAAAACAAAACCTTTTTT  
AGAAGATGAATTTTGTGTCATGTTTTTGTGGAAATGAGGGATCCGTTGA  
GCTTCACTATCCACCTTGAAGTTTGAAGTTTGAAGCCATGAAAATTGGTT  
GCCCCATTGCCTTGACGGCTTSCAACCGCCTTGAATCTGCAACGTTGCC  
CCTTTGTAAGAGGGATTCTTTACCCGTTTCTAAGAGAAGGCATAACCGC  
TTTTCTGGAAAAACCTAATTTTGTCTTTCAAAAAAGAACCCCTCTGGAG  
ATTTAAACCGTTTTCAAACCTGCTTTTCAATTAAGA

## &gt;Sequence 781

GGTACTTTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTTAATAGA  
AAAACACACGTGCAACAGTATCAACACACATTTTTTGGCAATCCTGACAG  
CGCTGAACCTCAGTTCCTCACCTTGGGGGTGGCCTGTACATATCAAAAT

Table 2

CTATCAAATTGGACCCTCAACTATGCATTTTTCTGTGTGCAAGTTATATC  
TCAATTACAAACAAAACAAAACACAAAACCCTATGGTTAACCCAAAACCT  
AAACTATCACCAAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCC  
CAAGAAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTTCACTGAT  
CATATCCCAT

>Sequence 782

ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA  
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA  
CTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTT  
TTTAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTTGT  
TGTTTTATTCTTGTTTTTTTTAAGTAGTTCAAATTCTGAACTGTGATTT  
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC  
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTTGTTACATCT  
CCCTCAT

>Sequence 783

GGTACTCTTCACTGTCTTTGCCATGAACTTTATAACATGGCTCTCCAGG  
TGTTGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCGGCA  
ATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGATATTTGA  
GGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTA  
CCTCTCCCAACCATTTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATATT  
AGATGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAA  
CTCAAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTTCCAT  
GC

>Sequence 784

ACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTGCGCTGGTTCTAGGAA  
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCGGTGT  
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGAC  
TTCTCTTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTA  
GAAGTCTTAAATATATTGTACC

>Sequence 785

GGTACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATA  
TCTGGGGTGTGAGTATCCGTGGGFTTTGGGTATCCGTGGGGGTCTGGAA  
CCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGT  
GCTTGTTTTTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTT  
TATTATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTT  
TAGTTTACAGTGTATTCATGAATCGGGCAGCTTACAGACCACAGGAGACATG  
AAGCAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTTGATTTGGT  
TAGAG

>Sequence 786

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CTAATGTGTTTATTATTAACATAAAATAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGAATAAATGGCAACAAAATTCTTATATCTGCTT  
CTGCAGTTAATTCTGTTTCAATTTTGTGTTTGGTTGAAATATATGAAGGAAAT  
CTGTCCTCACACAGTTGTGTAGTGGAAGGGGACTATTGTAACAGGC  
TGTGCACATTATTGGGGATGATTTTCTTTGATACAACAAC

>Sequence 787

CCCTTTGAGCGGCGCCCGGGCAGGTACGCGGGATTCTGGTTAAGCAGG  
CATTTGCTTTGCCCTGGAGCAGCTATTTTAAAGCCATCTCAGATTCTGTCTA  
AAGGGGTTTTTGGGAAGACGTTTTCTTTATCGCCCTGAGAAGATCTAC  
CCGAGGGGATAATCCTGAAGACATTCTTGGCCTACCTTTTACTTTATTTAG  
CTTTTCTCCCTCATTTTATATTTCTTATACACCCCTTTTCTTTTTTGGG  
AGAGATTGTTTATTGCCAATGAATTTTTTGGGTATTTTTATGTAAACAA  
AGGAATTAATTTACCTAAATTTCTATTTTCTTTTATGTTTTTAATTCCT  
AAGTTAAAGAGAAAAATGGTTTGAGGGGTCAAAGCTCATACCAAAATTAA  
CCTAAAGGCTGAAGGGTTAGGAGAA



Table 2

## &gt;Sequence 788

GGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGAC  
CGCGATGATGTGGCTCTGGAAGGCGGGAGCCACTTTCTTCCGTGAACTGG  
CCGAGGAGTAATCGCGAGGGCTACGAAGCGTTTTCTGAAGATGCATAAA  
CCAGTCGTGTGCGGACCGCGCTTCTTTCCAGGAACATTCAAGGATAGC  
CAAGCTGGATAGATGAAGTGGGGTTAAAAACCTCCAGGACGGCCTATGA  
AAAAGCTTGCCCATTTGGGCCCCCTGGTAGGAAAAAAGCCTGAAACCCAGG  
GCCCCTTTTTGGGAATCTTTCATTGCCCCCTTGGGTTTTCTTGGCCCTGC  
AACGGGACCCCCCAATCTTCTTGTGGACCTTTCCTTGGGAAGACTTCA  
ATTTTGCTTA

## &gt;Sequence 789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAA  
TCTCCTACCGCCATTAGAGCACAGGAAAAAAAATTCAAAAATAAAGGAA  
AAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACAT  
ATACCCAGGCCTCAGCGGTGGGAAGAAAACATACAACCACCGGGCAAAAT  
GTTTGAACACTGAAGACGGGAATTTTTTAGGGCCATNTCAAGACCATGTT  
GAAGGTAACCTGGGAAAGTCCTGGATAGAAATAGATTAAATN

## &gt;Sequence 790

CCCTTAGCGTGGTCTCTGCCGAGGTACTCAAGTCGCCCTTATGGAGCCCT  
TGATTACGGCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTAGGGAA  
TGAAGTAAGTGTTTTTTATGTTCCGTGTGTTATAACACCTGATTAAAGAGA  
AAACAGAATGATGAAAAATGAAAAGCGTCTTAACCTGGATTTCAGTTTCTCAC  
TACATAAAAATACAGAAAAGTCAAGGTGGAGGCAAGATTCCCACCCTCTCC  
AGCAGAATTGGCATTCTGCGTCTTACC GGCTTTCTGTACGTGGATTTC  
CGCCTGTTTCCTCATTGCCTCATGGAAATAGTTTCATATCATAGAAAGGC  
AAACAGGAGCTGAGCCAGTTGAAACTGAAGCCTACAATCTGAGGTGGGGG  
GTAATCTCGAGCAGAGGTGCTAGATGGTGAGAAAACAAGTANGACTTTTCG  
GCTGATGGGTAGAAACAAGGACCTTAATAAAGAGTATTCATGTGCTCAAG  
AAGAATAACTTCCTGGCTAATTCTTGTGCTGTCTCGTTTTTAAATTATT  
GGATATATGTTGCTGCTCTTAAATTAATCTGTGTTACAGAAAGTCTACAA  
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TTTCCACACACTGGGGGCGGTACTTATGGATCCAGCTTCGTACCCAACTT  
GGGGTAATATTGCTAACTGTTGCTGTGGGAAATTGTTTCCCTCCAATT  
CCCCCACATT

## &gt;Sequence 791

GGTACTAATTTCTTTTCTCTTTTCTTAGACCGATTCTAGTTTGTGCTTC  
CCTTTCCTCGGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCC  
CCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGA  
TGTGGCCTTTGCTCTTAAGAATGAGGTTTGAAAGCCTCAGTTCTTCCATG  
TTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAATGCT  
TAAAAAATATTAACAGCTTTATATCATCAAAGTTTTAACAGT

## &gt;Sequence 792

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCAC  
AGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTTACT  
GGCTACTTTGTAGATAACATTCACAGCTCACCATGAATGCAGCTGCAGTC  
AACTAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACT  
GCTTCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAGCCATAAT  
GAAGTTTATATACAGGCTTAATATAAAAGAAAACCCTAGAATGAACTCAA  
CACAATTATGT

## &gt;Sequence 793

ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCATCTGTTCA  
GTGCATCGAACACCAGCTGCTCTCTTCTCTCTGGCTCCCATGGCAGCCA  
TGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTCTTAAAGGGAACC  
TCCGTTTTGCTTCTGGAACCACTCTCTTAATGC

## &gt;Sequence 794

ACGAACTTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG

Table 2

ATTTTACTTTCAATTTTATTTTAATTTGAAAGAGCATATGACATCTGGAA  
TATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA  
TAGAGTAATTCTACTGTTGGATTTTAATTTTAAATCATATTAAGTTTAA  
CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAATAAAATTTTATT  
AATTAATTTAGGACTTTTGGGAAAAGATATTTTCAAGAGTTCAGTGATAT  
CAAAAAAGCGAACAACAGAGGCTTCATCTTTTGAAAACCTTCATTGGCTAA  
AAGTGT

>Sequence 795

ACCCTAGGTGATCTTTGGCTTCCTCAAGTTTTTGCACTCAGAAATCAT  
TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA  
AGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTTCTAGAAGAAAGA  
GATTACATGTTTATCTTTTTGTTACAGAAGAACTTTGAATAGCAGTTGA  
AAATTTGGCAGGGTGGACCACCTAACTTGACAGTGTATTATTGTGTCTGT  
TTTGAAAGGAATAAAATGGAATTATTTATAAAGTTTTTCATTTGTATTAGAG  
AG

>Sequence 796

GGTACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAG  
GGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTATCA  
ATCTGAACCTATATTAATTTTAAAGACCTCACGGCATCACTGAAAGATGAG  
TATTATTAGTTGGAATTTTAGGGATGAGAAAACCTGACCCTCAGGGAGAAT  
AACTGACTTGCCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAAC  
CCAGGTGTGTCTGACCCGAAGCCTGATCTGACCTCTGACAGTCGTGATA  
AAAATAAT

>Sequence 797

CCCTTGGCCGCCCCGGGCAGGTACCGAAAAATGATTTTGTATATATATTT  
ACCACAATAAAAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCAC  
TGTAGGTCAAGTATTTTTTGGTTTTTTTTCTCTTTATTTTATTTTTGAC  
CAATGGATTACCGTACCCAGGTGATTTTTTAAACAGCTTTATTGAGATAT  
ATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAGTTAAATGTTT  
TTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCAAT

>Sequence 798

ACAATTTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC  
ATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTAC  
ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAAATCTAAAGGA  
AAGGTTTTGATTCTTATGAGAAAAGAATGAGATTTCTTTAACTGGAAAAT  
TGATTTATGTCCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTA  
TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTTCTTAT  
A

>Sequence 799

ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC  
TAATCTAACTGGATTCTCTTCCCCATTTCTCATTACTAGATTATAAT  
GCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTT  
CTTTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCAT  
GATTCAAGTGACTAGGCTGTAGCACCCAAGAACCTTGCCTTAAACAGTT  
TATTTTACCCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTG  
CTTAACCCCTTTTGCTCTTTATTTTGATTAAAGCACTTGACCC

>Sequence 800

GGTACTCTCTAATTTTAAACAAGGCTCCCTCAAGATATTAATGTGACAAAC  
TTACATAGCCAGCTGTAAGATATCTTTCAAATGCGCAAGTAACCTAACAG  
ATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAA  
TTTTCCCAAATTCTAAATGAATGGAGATAAAATGCTATATAATAAATATG  
TTAGAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAAATAAAAGACATA  
ATTATACTCACACCACCAGTAAACCTCTGGTCACCTGTTTTGGGTTGTG  
GAATGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATAT  
CACACACAGAATTAAACCACATACAGTAAACAAGAGCGAGGAAGTCCTGA

Table 2

TGGATGGTAATGCTGCAACTTGGCACAGATATATTCAGTAGCTTCCCAGG  
AATACAAATCTCATGTATTAACCTCAATGTGGCAAGCTATCTCAGATTTGA  
AGCCTAAATACTTAAATTTTTACTTTAGAAATGAGTACCCTGCCGGGGCCC  
GTTGCAAAGGCGAATTTCCACAACTGGCGGCCGGTACTAGGGGATCCAA  
GCTCGGACCAAACCTGGGGGAATAAGGGCATAACTGGTTCCTGGGGAAAA  
TGGGTTCCGTTACAATTCACAACACATTCCAACCGGAGCCTAAAGGTAA  
CCCGGGGTGCCAAAG

>Sequence 801

GGTACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGAA  
CTGTGAGTTTTGCATTCCAACCTTGCTAATTCAACATAGATCCTAATTCCT  
TAAATGCTTGTAATTAGAAATCTCGTGAAGTGTATTGGTTTTGTCAAG  
CAATCTGTTTGGGGAACCTGAGCAACTGGGGCACTGCTGGCTAGGGTGAA  
GTTTATTTAATTTGTTTTATGACATTCTTCATCTTGGAATGGGGTTTT  
CAAATATTGCTTTCCAGGCATCATTACTTATTTGCTGGTTTTTATTCA  
AGATTGGGACTAGCTCAAGGTGCCAGGGAAGCGGTTTGTGGTGCTTTATA  
TTAAAGTCGTAATATCCAAAAAATTGTCTGATTGTATGGGGTATCTTGG  
ATGTGGTACCTGGCCGGCGGTCCGTTCAAAGGG

>Sequence 802

CCCTTTGAGCGGCGCCCGGGCAGGTACGATAGGCATGCAATTAAAGAAGA  
CCTGCCTCAAACATTTTCTGTGTGACCTGAGGCAAGTCCTTTTATAGCTA  
TAACTAGGGACAATATTTGCTGTCAATTTTTCTACAAATGTCACAAAGA  
ACAAA

>Sequence 803

ACGCGGGGGGTTTACAGCTGTCTTACTTTTAACCAAGTGAATTGACCTGC  
CCGTGAAGAGGCGGGCATGACACAGCAAGACGAGAAGACCCTATGGAGCT  
TTAATTTATTAA

>Sequence 804

GGTACCTTGACAGTGCCTTTTAAATTCATTTTGCTGGACAGTTGGCAGG  
CTCTTTCACCTTGAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTGG  
CTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGA  
TTCCAGAGTCTGGAGGCTTCTCTTTTTAAAAATTGCTAGGCTCCTGCCAA  
ATGTTATAATTTGGGGATGTGAGTTCACTAAGAAATCAACTGACAAGAGG  
CAGATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGAAA  
AAATTGATTACCAATATCCCAGTAGGGTAGAGATGCTTATATACCCAC  
CTCTTAAGAGAGAGGGAAGTGGATGATTTTAGGGGAATAGTAAATACTTT  
NTATGGGAACCTCACTGGGCTTGAAGAATATAACAAAAGCCTGGGACAAAG  
TCTGTTGGGCCCACAGAACAGACAGTGGTTTATGACAAAAGTCTTGTGAG  
ATGTTATGACAGACTTTCAGCTTTCTTCTTTGTATATGATTCAGTTAATG  
AAAAGTAGGGAAGGGACTAGAGGTAAATGGTTTTTTCTTTGATGGGGCC  
CAACCTTAAACCGGATAAGAGGACCTTAGAGAACAAAACCTTATTCTGGG  
CTTTGGGAGAAACAGAGGATCCAAGACAAAAGACGAAAGTTGGATTGAGA  
GAGACCCTGGGCTGCTCAATTCAACATGTCAAAGGGCATATTTTTGGGTT  
TGGGATTTTAAT

>Sequence 805

CCGGGCAGGTACTATTACTAGGTTTCAATGTTTCCAGAGGGGTGAAACGGG  
GCTTTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATTAAGTGG  
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCT  
ATTCTCTTGTAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATAC  
AGGTTGAGGAGATAAAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGC  
TGGGATTCATCCTGGCTTGTCTGATAGGTCAGTTAGTCTTAGAGATACC  
CATGAGGTCACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATTCT  
TGTCCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTGGAGGCT  
GTCCCCACGTCCCACTTCAGTGAGGCATTCATGTGCACCCAACACACTTT  
CTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATG  
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC  
TTGTTAGGAATGCAGAACTCAAGCTCCTCCCTACTGAATCTAAAG

Table 2

## &gt;Sequence 806

GGTACACATATATACACACATATATAGATATATACACCCACATATATATT  
TGCTGACATTTTAAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATGTA  
TGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAA  
TTTTCCAAAGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAA  
TCATTTAGCCATATCTAGAAACCAGAATAAACAATGCCATAAAGCCTATA  
GGAAAATGCAGGTCAGATTCATAAATATTCATGTGTTTACTTTTCAGTACA  
GGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCCGGTCTGAA  
CTCAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCG  
GCTGCACCATCGGGATGTCCTGATCCAACATCGAGGTCGTAAACCCTATT  
GTTGATATGGACTCTAAATAGGATTGCGCTGTTATCCCTAGAGTAACTTG  
TTCCGTTGGTCAAGTTATTGGATCCCGCGTACCTGCCCCGGGCGGCCGTT  
AAAGGG

## &gt;Sequence 807

AATTCCTCATGTATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA  
CCGTCCCGCTGCAGAAGAGCATCAGACGTTTCAGTAAGAATGCAAAGGGTA  
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAAACCAACACATGGCTA  
GGGCTCTCTAGGCCCTTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA  
TCTTTCTGAGGTTGGTGAACCTGAAGAAACGAAAGTTTCGGCCTCTGCTG  
TCAGATCTATGAAAGGAAAGAACTGTGAACCTGTCCCTTTTGTCTTCTT  
TGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACA  
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC  
TAACTTATAGCATCCACTGAGATTAGCCGCATAGGATTCTTCCCATGTTA  
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGTACC

## &gt;Sequence 808

GGTACTATCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGAC  
ACTTTTCATATATTATCTCATGAAATCCTCACNAATAATTCTGAAGGGTA  
GCTGGTATTTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAAT  
TCAGTGGCCCAGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAA  
AGTAGCAACTTCTAAGTTTCACTCTCCACTTCCCTAGTTATTTTCCTAA  
GGCATGAATGTCTGGGAAATAGCATGCATCAGATNTTCCACCTCTTTAAA  
ACTCTTCAGTTTCATATAATNTAGGGTGTGACTATTCATAGATACCTTTGA  
GCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAATG  
CACGCTTTCTCTGTAAATTAATAATGCCAACCGAGCTTGGGAAAAGCCCCA  
TCTTTTGATATGAACCAATAGGGCAGTTTAGTTTTAGAAAATAAAGAAAGT  
CCACTGTTCTGCTTTTCTTTTTTACACACAATAGGTAACCTCTGCTCTAT  
CTTCTACAAAGAGTCCCAGTCAGTTTTCTATGCCTACCCTCTTAAAAGTT  
TCATTACACAAGCCAAAACAAATTCCTCCAAAAAAGGATAATGAATCCTA  
TTAATGAAAAGTGGTATTTTCTCTAATCATNTTAATAAAAGGAATGGGG  
GATCAAATGGCATTAAAGCTCATTTTTGAAACAGAATTAATAAATAAAT  
GCAAATATTGTAAAAAAATGACAGATCACAGCCCCCTGTTGTAAGGCT  
ATTCCCATTAAGAATG

## &gt;Sequence 809

ACTTTTTTCTTTTCTTTTTTTTTTTTTTTTGGGAAGAATATTGCATACCTAT  
TAGAAAAGTCTTTTAAACAATTAAAATTGAAAATGACTGACAACTTACAC  
TATTTGATTTTAAATAAAATAAATAAATGGTCACATGATAACAATCTCCTGA  
TTGATATGCTTTATTTAACCAGGTTCTCAAACCATGGATGTGAAAACCA  
AATTTTACAATGCAGAGGTAAGTGTGAGTGTTAATGGGATTTTCATATT  
AAACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA  
CTGAAGCAAAATCGCCAACGTGACTGTAAATTAATTTGAAAAAATCACAAT  
TTCAGTTAAAATTGAATAATTTTATTATAGGTCTCATAATCTTTTTTCAGC  
TTACATGGAATCAATGTGTCTTGATTTTTATTCTCGTTAATTTTATAAGG  
CCTTCATCTCCTTTCCGGTAAATGATTGCCCTCTCATTCATTTAATGGTG  
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTCGGGATTTTAC  
AAAAATTGGAATTAGTAGATCTAACGCTTGCAAAAAAATTAATATCACA  
TGGAAAAATACTGACAGNTGAACTTTACACATTAAATTTTTTCCAGGTAG

Table 2

TAGGTTGGCAGCCAGAATAGGTGCTGAGTTTGGTGAATGGTTTTAAAAGC  
TCTTGGGAAAACAAATTTGGCAAAGGGGAAGTACTCATTATTGAAGTTCT  
TTTTTTTTTACCTTAAAAAAGGATAAATGAACTTGCCAAATAAAAAAAA  
A

>Sequence 810

CCCTTAGCGGCCCGCCGGGCAGGTACTCCATTTCTTTTTATTTCATATTAT  
TTCACCAAATAATATTCCACTGTGTAGATCTATCACATTTTCGTTTAGCAG  
TTTATCAGCTGGTGGACAATTTGGCTGTTTCCATTTTTTGGCTGTTATGA  
ATAATGCTGCTATGAGTCATAGAAACCATTCCTCTTACTCAAGAAACAGG  
TTCTCCAGAACTAAGCTAAACTTGTTTGAAATGTAAATTCTCAGGTATT  
CTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCCAACCTC  
TTTTAACAAGTCCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAAC  
ACTGTCAAAATCAAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATA  
AAGCCAGGGACAGCTATGAAGAGAGGGTTCTCATGCATCAATGCCTGATT  
AACANAACTATCCCAAATGACTCTGCANAAACCACAATCCTGCACAAAG  
GTCATCACAACTTACACAAAAAATATCTTCACAAGGACATCTGTCCAGC  
AATTGCCTGTCCAATCTCAGACTGGTCACACTTGTTACTGATCCTGTN

>Sequence 811

GGTACAATCATTA AAAACTATGTTGTAATACTGTTTGTCTTTGTATCCATT  
CTGGCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTATAC  
CAATATAATGCTGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTA  
TTTGTTCAATTATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATG  
ACAATATCTTCAAAGCCATTATTATTC

>Sequence 812

GGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAAAAAAATTTAATAA  
ACCCTGTGTGATCCCATTGTAACAGAAAGGCTGATGTTTTCTGTTGTGAA  
ATACAAATGCAAGGAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCT  
TCCATAAAGAATAATTTGTATTTATTTTTAAGGGTTTATTTTAACTTATA  
CATCAGCCTATATAAAATACATTTCAAAATGATCTGTGCTCTTTAAATTA  
CCAAAAGCAAATGTAAATTTTTTTTTTCCCTCTAACAGATAACAAGTTTAA  
CTCCTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGGGAAGCCGAAT  
TAAGCAGAGGAGATGGGGATGTCGATTGGGAACACCCCGAGCTGTTTAC  
ACAAAGCCTTAAATGGCCACAAAAAATAGTATGGGGATAATTAATAAA  
TCCTACTGGCCTTTTCTATAACCCCGGAAACTTATTTAAAAAATCCGTGA  
CATATTACAAGAGATTTTCCTGG

>Sequence 813

CCCTTGAGCGGCCCGCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTC  
CCTACATTACTCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACAT  
AATGGAAGACACTTCTTGGGTGAAATACTCCACAGTTATTTCAAGTTCTCA  
CTGGTGAGTCTGAATATAAGCTCTATGAGAGCAGGGACCTTGTCAGTCTT  
ATTCACAATATCCCCAGCCTCTAGAACAAGGCTGGCACATAGTAGATGCA  
CAAAAGGTGTTTGCTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAAACTCAGGTTTCCTCTGTGGGTTTCAC  
AGTTTACTGGTCTTAAGAGGAGAGTTTCCTAAACTTGCCTTATGATAAAA  
ACCACCTTCAGCATTTGGTAAAAATTACCCATTCTGTAGATTCTGAGTC  
AGTGAGCTGAAGTGGAGCTGATGAATCTGTTTTTGTGATACTGCTGCTG  
CTGCGGTTTTTAACACATGCTTCAGGTGGTTCTAAGCTTAGGAAACCTTG  
CCCAAGGATACCATCCTGTCTCTTGGGAAACTGTCTCTAT

>Sequence 814

CCCTTAGCGTGGTTCGACGCCGACGTACTTTTTTTTTTTTTTTTTTTTTT  
TATAAAACATTATTCATATTTTATCTTATTTTAAATTCACATTTATATTA  
CTAATTTTTATCAAAAACCAACAACCAAAACAAAAAATATTACAACAAA  
CAGAGAAACGAATCAAACCAAAAACCAAAAAATCTTTCTGGAATTCAAAT  
GATACATTATATACCTATCAAGACAACAACTACTAACTACCTAAACT  
ACAAATTATCATAAAAAATGACTCCTGTCTATATCAATAAAAAAATGCTA  
TTAAATTGAGTATTATAACACAATACAATGTCTACAGCTTTT

Table 2

## &gt;Sequence 815

ACAAGTATTATGTATCCATAAAAAATTAAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC  
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAA  
GGCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTG  
AAATTTTATATTTAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAG  
ACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
TAGTCCACAGC

## &gt;Sequence 816

GGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTTCATGGTGTTACATAGGCCTCAATTTTTTCA  
GAAAGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT  
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATA

## &gt;Sequence 817

GGTACATGTAATAGACACTATGCTACAGCAAAAAGCTTTTCTTATTGTCTT  
TAAAATTTTCTGGGTGCATAAACTATGTNGGTAACCTTTTCCCAATTT  
TTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTCATTTAACAAA  
GGCAGATAGAAAGGCCTCAAATCCCTGAGGACCAAAAATCCCAACACATT  
TTCAAAGGGAGAAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAAC  
ATAATAGAGAGGCTTTATGCAGT

## &gt;Sequence 818

GGTACTT  
TTAAACACTTTCAATTTTGGAACATTTGTTTTTTTTTTTGAGGGGAACAAA  
TTAAATTTTTCAATTCTAATTTTTTTTTTTTTTTGGACACATGTATTCCTT  
TAGTGGAACAAAGGAAAAAATAACTTTTTTCTCAAATAGTCGGCCTGG  
AAAAACCAAAATACAATGCAGGGATGGAATCAAATTAACAAATTTTTTTT  
CCTACGGAAACAAGAGCCTTTTTTGGGTATTTTTTACCAACACCTAGGAAA  
AATTCCCTTTTTATACAAAAGTCATAGGGATTTTTTTCTTAAAAA  
ACAAGGTTCTTGGGCTAAAATAAATAGGTATTACTAACATAATTCGGGAA  
CACGCCAATGCCAGATAATAAACGGGAACCCGCCCCCCCCCAAGCGGA  
ATAAAAAACAACCCTCACGCCCGGGGAAAGGGGATATCGGCTTTGACCCCT  
TCTCCCTTACACGAGGAAATAATTTCCGGCGAAAAACGGGTAGGGGTA  
AAAATTTCAACAAAAATACAAGGCGCGGAACATAAAGTAAAACCCGGTG  
GGGCTAAGAGGGGGGCAACCCCATGGCAAAGGGCCCCCAAGGGCCGAAA  
ATCTCAAGGGCCACGGTTGTGGCTATTCCAAAAACACCCCCCAACAGG  
AATAAAATTTCCACTTAAGGAGG

## &gt;Sequence 819

GGTACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTTCATGGTGTTACATAGGCCTCAATTTTTTCA  
GAAAGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT  
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAGA  
ATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTTAG  
GAGAATGTGTGGTCATCCTAG

## &gt;Sequence 820

GGTACTAGAATTAGTTCCAACACTACTGCTGGTGATAAACTCACCATCTACC  
TTCACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAGAA  
TCATCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATC  
TACTCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCT  
CTAATTCAAATTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGA  
TAAAAGATAAATTTTGTGTGGTTTGCATCTTTGTTTCTTCTTAAAA

Table 2

CTTAACAG

&gt;Sequence 821

GGTACTGGAAACCAGACCTTACTTAAGCCACCAAAGGCAAGGTTTGGGC  
CTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAA  
AATGCCCTAAGTGGCTATTCAGGTAATATATAAAAGTAAGACCAGGCTAA  
TTAGTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATG  
AGCCTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATA  
TTTCAGGAGAAAGTAAAAATCTAGATTTTATCTAAAATCTTTTAAATTT  
TTAAACAGTCACCTGATTTT

&gt;Sequence 822

CCCTTGAGCGGCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGA  
CTCTTAGAGACCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGT  
GAATTCATGGCCGATGTCTAACTTCCCTCACCACTTTCCGATATGGACA  
GTTCTCATGCCCAGAAGCAAAACCTTCTTTATTGTGCCTGTCTCCCTTG  
ACTGTCATGCATATAATCAGCATCTTCCCACTAAGTGAAGGGCCCAGAC  
TCGAGCACAGGAGCACAGCACCCCTTAAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCAATTTG

&gt;Sequence 823

CCCTTAGCGGCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACA  
GAGGATTCTTGAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGC  
TTCCAGGAGCGTGGGTCTCCTACGTTTGTGTTCTGGGAAGAATCTTGGA  
CTCAGGCGTGGGCAGCTGGATGCCTGGGTTCTTAGGCTTCTCCAGGCA  
ATGTAGTTGCCTCTTTCTCTCCCGCGTACATAGTAAGTGTATGATAGAT  
GTTTGATTTGTAAATTACAAATATAAATTATCACCCCATTTCCATTAT  
TTTCTTGATATATCAAAATGTGTTGA

&gt;Sequence 824

GGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAA  
TCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAGCATCAAAATT  
GGGAGATATTAGATGATGACATCTAAGTATTAATAAAGGAGATATTA  
TGATGACTCCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGG  
TGTGGGAAAGGACAGTTCTTTTAAATGGCTGGCTGACCCAGCCTCAATTT  
CTTGCAGCTTCGCGACACGAGGTGACCATCTGCAATTACGAAGCATCTG  
CCAACCCAGCAGACCATAG

&gt;Sequence 825

GGTACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATC  
AGTGGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGT  
TGGACAAATTTTGAGTTTAAACAAGGACAAAAAGTTGAAAGAAAAGGCAC  
AGTTAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA  
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGA  
GCACAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCT  
CATGTGTATGATGTGC

&gt;Sequence 826

GGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGG  
AACTGTTTCCAGAGCTCAATAAGGTACGCGGGAAGTCAACTCAGTTACC  
TCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGT  
GACATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATG  
ATCTTTCCTAATTTTCATGAGCATCTTTTCTGATATAAACCAGGGAG  
GAAAATAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACC  
TGCCCCGGCGGAC

&gt;Sequence 827

GGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTT  
TTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTA  
TTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTAT  
TTTTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTT  
TTTTAGGGAAAAGGAGATACTTACCAGGAGGATAAAAAGGAACAAGAGG  
GGAAGGGGAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGAT



Table 2

GGAGGCACATTNT

&gt;Sequence 828

GGTACAAACAAGCTTTGTAACTAACCCTTGCCATCCTGGCTACTTTAC  
CCAATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGT  
TTGCTATTCTTTGTCAATCTTGAACTGACTGCAACTGCTTCTGTGGGT  
CTCTGTTTCTTTATGAAGTTTCCCAGGCCATACAAAACCTTGTTAGCCT  
ATCTTCTGTCAGTTTAATTGTGGAACCTCAGCCAGGCCCTTAAGAGGATGG  
AGGAGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTGAAAAATAAA  
ATCTCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGACAGCAGAAAT  
ACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGTTTT  
ATATATTCATATCTGGGTGCTTTGATAATTATATATACATACTTTTTGA  
TATTATTTACTTATTCTTTACATTGGAAAGGAACTTGCTTTGTAATCTAC  
ATTCCCTTTCCTCCTACATTTTTTTTTAGTTTTTTTCATTTGGTTTCTAAT  
TGAAACTAAAGGTAGACTGACTGTTAATTGAAAAGAGTTTCAGCTTTAGG  
ACTTTAATTTTTTAAGCTTCTTTCAATGGTCCGGACCTAATTCGAATTG  
CAGTATTGTCTGCCCCGGCCGGCGTTTAAAGGGCAAATTCAACACACT  
GGCGGGCGGTATTAGTGGATCCT

&gt;Sequence 829

ACTCACAAGCAATAACAGATTTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAA  
ATACTTTCAGAATGTATTTTTACTACTGCAAGTTTTGGTCTTTAAAATG  
TCAAGTAGCATCTCTCTCTTCTCTCTGTCTCTTTCTGTTTCTCTCTCCA  
GTTTTTTTTTTTTTTTTAATTTCCATATGGGCTAAAGAATCCAAATATTT  
TAAAAATCTGGCTCTCTTTTCTCTCTCATAAAGTGAATTATTCCTCTTT  
TTTGTTTTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTA  
ATGCTAACTTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCTT  
CAACAAAAAAAACCTTTAATTTGCCATTGAAACTGTAGAACTATGCCAT  
GCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGTGTAATTA  
GAATTGGGATGGGGATATTTACTGTATGACAACACATTTACAGGTCTGTA  
ATGCAAGGATGCAATTTAAAAATGTGAAGTAATGATGGGTTTTGAAATAA  
GCTTTAAATATATGGACTTGAGGGCTCCTGGGGAACATTTTTTACCTAG  
ATAAAAAGGGTT

&gt;Sequence 830

ACAAGCCATTGAATAAGCCTCTTCCTTTTTTTTTGCTCAAACATTCCACAT  
CCTTGTGGATTCCCCTGCATTGTTTGTATATATAACATTTGATATTTGT  
TGTAGCTTGATATGAACATAATTTTCTTTAGAGGTAGTCACTGTTCTCT  
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTA  
TCTAAATTTCTATTGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCAC  
GATTGGCTGGTGCAATGTTTAGACTTAAATGTCATATCCTTCATGTCTCAA  
AGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA  
ATATATGTGTCAAAAAGTCTACATATGTTACATTTCCTTGGAAAGTCTCCTT  
AAATGTTTCAAAAATGTCAACAAGCTTGTTTTGTTATTGATATTTCCGA  
GAATGGGCACATTTAAGACAGTAAACGGGAAAGGTGGTGAAGATGCTATA  
AGAAGATGCTGTATCTTGAGAATTGAAAAATGAGAATCTGACATGGTTTG  
GAAAATCATGAAAGGTTTATATAAAGGATGCATGTGTAGGAGCCATTTAA  
ATTCATAACAATATGTGCCCTTCAGCGTTTAAATCTTATGAAGGGGTTA  
AGAGATAAGTCTTTGGAAGTGGACAAAAGGATTGGAATTTAGGTTCTGTG  
GATAATTAG

&gt;Sequence 831

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGA  
AGTCACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCA  
ATCAACCTTTGCTTGTTGAAGGGTTAGTTATCTAGTTTCCTTCTTTCTT  
TTTTGGAATTTGGTCTTTTAAGGTCTTGATAATCTTTCTAGTCTAGAGCA  
TGTGAACAGAACAGAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAGCA  
AGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC



Table 2

TCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAA  
CAGCTGTTTTTGCACCTCTCCCTTGTCTTAGTAGCTGAGTTCTATAAAAAA  
ATACCACTCGGGTAAATGCTAATATACTTAAGCCATTTTTTACTTGATAA  
CATGCATAAAAAGATATTAGGGCTTTCATGGCTTCTGGCCCTTTTGGCTA  
AAATCAAAGGTAAAAAGAATGCCATGGTTCAAAAAAAAAAAAAAAAAAAAA  
GTACTTTGGCGGGAACCACCCTAGGGCAATTCACCAAATTGCCGCCGTT  
TTTTATGGATCCGACTTGGGTACAACTTGGCGTAATAAGGGCAAACTG  
GTCCCGGGGAAAAATGTTTTCGCTTCAAATTCCCACAATATCGAACCGG  
AACTTAAAGGTAAACCTGGGGCCCCAAG

>Sequence 832

GGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGGATCTGTAGTGTA  
AGCTAGGGAGAAAGAGGAAGAGATCCTGTTTGAATTTCTGTAAGTAGCGT  
ATCTCCAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGA  
TGGAAGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTT  
AACATACACTCCCTCACCCCTACCCNCAGCTTAGAAGGGCAGGAACCTGC  
TGTCAAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTG  
ACGTCCATGAGCCAGCTGCCCTCTCACCTCACTCTATTTTAAGTCAG  
TGACACACAATCATGCTTTCCTTTTTTGCACCTGAAGGAGTGATGTCACT  
CCAGACTGAGTCCTTATTAGAGGGGATGATGGAGTGATTTTAGACCTGG  
GAATGGTCTAAAACCTTTTTGGCTTAGGCTAATCATTGGATCCTTCAAGG  
AAATTGGATATTTTGAATGCACATCCCAACCCGGGGTCCTTATCAATGAA  
CCCTTACCTTTAAGGCACCTTGTGGTTGAAAGGCGGGACAATGAAGCCC  
AGAATGACTTCTGGTTCCCTCCCTTTTGCAATAAAAGGTTGACCCAAAGCT  
TCCACATAAAAATGTCCCTGCCCGGGCGCGTTTCAAAGGCGAATTCTCA  
CCAATGGCGGCTTTCTTTTGTACCCC

>Sequence 833

ACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGTAGAAATCAAACAGT  
CCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGTTATGAAA  
CTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAGCA  
TTTAGAGAGACTGTTCCAATAACTCTCATTTAATTGGTGAAAAAATTA  
TATTGGTTAGATACTTACCTAAATATTACTAGTTAAATTCAAAGTAAAT  
GAGTCTGTATCTTTAAACTACTTGGCAGTAATAATTTTAAAGTAGAT  
TTTTATTGCTTTTCTTGAACCTAAGTGTTCATACAACACAGGTAGTTT  
TATTTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAATGTTCAAC  
TCAACGCCTGTCCCATTTTAAATCTCACAAGTTTTTCTTCATGATTAAC  
ACAATTCACAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCT  
GTGCTCTAGTAAATATAACTTGTGAGGAAAAAGTAAAAAGGTCAAGAGTC  
TAATTCATTTTCAGTTTTTAAACTATATTTTAAAAAGAATGATTTGGG  
GTAAAAATAAAGAN

>Sequence 834

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TGTATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTT  
CCTCATTTGCCTGAAGCCTGCTGGGTGGGCATAGTATGAATACTTGCCCT  
CATCATCCCCATTTACAGATGCATAAACAGAGGCCAGTCAGTATGCCTG  
CAGACTGTGGATAGAGCCCGAAGCCTCAGGTAGGCAGCTTGCATCCAGC  
TGTGAGTCCCAGCTAGGGGAACTGAGTCAGCCTCCATCACTCCGTGTCTC  
GGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGTAG  
CTGTGAGTATTAATACGCTGATGCAGGGCAGGTGAGCCCCCAAATTG  
GGGTTTAGCTTGCGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCAAGGG  
CTTCAAGGGCTAGCCAGTGGTGTAGCAACTTTCTTGAAGTGCCAGTGT

>Sequence 835

GGTACTTTTTTTTTTTTTTTTTTTTTTAAATTCAATGGAAG  
AAAAGTCCAGCTTAATAACTTTAATGGAGAAAGAAGGAAGCAGTATAAAT  
TTGTGGAGACTCCAATCACATGTCCTCACTCTGCTACCCTGGGCCCAA  
ATAAGGGAGGAGACACTCAGAGCCAGGTGTTTCCCTTGATGGGAATGTGA

Table 2

TCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTTC  
 TGTTCCCTCTGAGTCATGGAAGTGTTCAAAAGGAATCATGAGGGTATTTT  
 GTTACTTTACTTACTTTACCCCATCACAAATCAGTGCACCTTCTCTAGAAGG  
 GAATTTTATTTTGATTATCGGAAATTTACAGCTTCTCCTTCTGCAACTTT  
 AATTTTCTTCTCCTGTTCTTACTATTTTCTTATTACAAATCTCTTTCT  
 GGGTGTGTTGTGGGAATTCCTTAATCTATTTTCCCGTGGCCTCTCAATCC  
 TCTTAATTAATTATTGTTCCATTGTTTCGATCGTCTGGGTGGCATTGTGT  
 GTTTTTACCTGGCCCGAGGCCGCGCTTCAAAGGCCGAATTCACACAC  
 ACTGGCTGGACTCTTATATATGGTACCAATCTCGATACCTNGCT

>Sequence 836

GGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATCTAAAATCAGCCT  
 TACGTGGGATCTGCCCAAAGTATTATTTGCAAAGTATCATTTTCAGTTT  
 TAACTTTTAGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGG  
 CAGGCAGAGAGCTTGCTTTCCTCAGCTTCTTACCCTTAGTAAGACCACTT  
 TAGTAGGACACTTAAGTATTTTCAAGTCAGCGGATTTGAATCTGACTTCTTG  
 GATGCATCTGTATCAAACATAACCATTAGATGTGTTACAGAACTGAGCAG  
 CATATCATTAGATGTGTTACAGAACTGAGTCCTACTTACAATAATTAATT  
 TAATTTCAATAGCGATCCCCACCATTTATGTCCTAGGCATCTACACAATT  
 GGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTNTG  
 CTTTGGCATGTTTTTACAATCCCGCGC

>Sequence 837

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAACCTTAAATAGGTTTTCTTAG  
 CTTGACAACCTCATTCTCTATATTACGAACATCTCCTGACTTGTTCCTTC  
 AGTGGAGATACCCTTTTCTAGCCAGAGTTGGCAAAGTAGCAATAGCATG  
 CATTGGCTTGTGTTGAGAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGG  
 AGGTCTGTTATTGTCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCT  
 TTGAAAGAATATTCAAAGACCAACACAAAAGAGAACATTTCCAGATCCAA  
 GAGAGTGTATGTAGAAACAGTGACAAGTTAGAAAATCAACTTAGGTATCA  
 GATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAATTTATAA  
 CAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAACTT  
 ACTAGACTAAGGATNTATTGCATATTTTTTACTAATTAATGTTGGGGAT  
 GTCAGACGTGGTTGAAAATAATTAAGTCTGGTTAAATAAGGCTTTTTTC  
 ACCCTAGCTTACCTA

>Sequence 838

ACTACAAAAATAATGAAGCCAGCTAATTACCATCAGGTTACAACCTTACA  
 AAGAAGTGAAGCAGCAAAGAGCTGAAGCAGAAATGACATAGGAAAAACAGC  
 AGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAA  
 GAACAAAGGCCCTAATCCACCTCCTCACCCGCGTACTTTNTTTTTTTTTT  
 TTTTTTTTTTCCAGTTTCTGTTTCAAATTCTTTATTATACATCATGGT  
 TGCACAATTTGAGGCTGGTTAAATACAATTGGTTTTCAAATCTCTTTGA  
 ATATTTCTGGCTTATTACATGCAATGACCATGAAAATATTTGGCATT  
 TAAAATTCTGAACTCTGAATAGGCACTTGCATGAAGGAAAACATTACCA  
 TTCATAGATATCCACATGTAGAACAGATGCTCCAGCACATGGTGGTACC

>Sequence 839

GGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTCTTGGTCTTGTAGT  
 CGGTTTGGAAATTTCTAAGTCAGGGTGGGGTGGGGGACTGTGCACGAGT  
 CATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAAT  
 TGGGTTGTCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGGATC  
 AAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAGTTCTCCG  
 CCTCTGACATCAGGTCCAGCTGTTAGCATCGTGTCTGTGGGTCCCTGAACA  
 AGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTG  
 GGTGATTCTGATCCATGCAGCCCTTAGAGGGCGACACAGACGTGAACTGGA  
 CATTCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTACATC  
 CACTCACCATTTCCTCCTCGTTCCTATTCTTAGAAATAAGACTCTGACG  
 CTCTCTTTTATACAGGCTAGTCCCCTATAGGCATGTGATGGTGATTATT  
 GCAATCCTCCTGACTTTCCTAAGAAGAGATCAGACTTAGCAGGGTAGTC

Table 2

C

&gt;Sequence 840

GGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAGAACAGG  
TTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATG  
ACCCGGACTTCCAACCTCTAAATCTCTGTCTCATTTCACCTCTTTGTAAT  
AATCATTGCTATTATGTTAAATATCACAACACTGTCAATTTCTTGTTTAC  
CCACTACATTCTAAGCTTGGTGCTGACATCTTTGTATTTATTATATAAAA  
TTCTCAAATTAACCTGCCCCGTTAGGCTTTCTTATCACTTATTTCAAATG  
CAAAAATAAGGTCCAGGGAAGATAATTATGTAACCTTGTTTCATGATTGGAG  
AGCTAATAAGTGTCAGAAATGAATTGAACCAAAGTTGGTGTGACAAAGCC  
TCTGTTTTAAGCAAAAGGGGAAAAAAATTCTCATTAACTCCAAGGATTAT  
CATTAGGAGTCCAACAGGGTTCCCAATTTGGGAACACTATTTTCATTATC  
ATATGGCAATGGTCCACTATGTTAGATGAGAAGGCCAAAAAAGG  
AAAAAAGG

&gt;Sequence 841

GGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACTTATTATTATTC  
CTTCCTTTGTAGAATGTATCNCCTAAAAGTGTTTAAATCCTGACTATAAC  
AATTATTTGTTAACTATTAAAGGGTAATTATACTCTAAGCTTCCAGTTT  
TCAGTTAAACAAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCA  
CTTGTTAAGTATTTTTTAAAGTGAAGTCTATTCAGACTGCAACCAGTAAA  
CTATTTATGCTTATAATTTTTCTCACGATGGATTTCTGTTCTTTGTTGC  
ATTGTTTGTGTTTATTTTATGTGATCTTTTTTAGCTACAAGGTGGGAAA  
TGACAGTGGTTTAGAGATAAGAAGCACATGAATGGAAAGTAAATATGTGG  
AGATTTTTGGCCACTCTTGTAACACTATCTGAAGTAGTTTTAAATATTT  
TTTAGTTGGTAAGAGGATGTACCTGGCCGGGCGGGCGTCCGAAAGG

&gt;Sequence 842

GGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCACCTCACAGGCTCA  
AGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGC  
CACCACACTTATTAATGTAGATTTCCCTTTGTAGATGTAGATTTCTTTAC  
AAAGTGACAGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATA  
ACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGGGTGGCATATTCTAG  
TCTCCTCCAGTCATATTTTGGGGTGGTGTCTGCTGAGCCCCAACAGATA  
GGGTTTCAATTTTGAAAATTGCTCTTCCAGTCCCACTGTTTCATCTCATAAG  
CCCAGGAATCACCACCTGTTGATTTTCTAGGCATCTTCTTGCTCAGGGGA  
GTAGATGTTTGGTGGACTAGAAATGCAGGGAGGAGAAAAGGAAGGCTTGG  
TGATGTCAAGGATTTTTAAAGCCAACCTATCTCACTGTGGTCTCTTAATA  
GTCACCCTCTGGGCTGCTCATTTTCATGAAGCTTAAAGCTGATAACTTGGG  
GGACAAAAGGGTTTGGGTAACAAATTAATTTTGTCTCCGAAAATACCAA  
CCATACTTTTCTGGCTGGCTTGAGGAAAATTTAACTGGGGATTAATTCTG  
GCTAATTGGTTGGGAGCCCCCANTAGATTTTACTACAATAAAGAGGTCTG  
TCCCGGGGGCCGCTAAAAAG

&gt;Sequence 843

GGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGATTAGGAAAAATAG  
GTAGACCCTGAGTGAAAGTAGAAAAGAACCATTCTGGTAAAAATCTGAA  
AGTAGAAAAGAACCCTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCT  
AAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGA  
AGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTCAT  
TTTTCTCTACCTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACA  
AATAATGAAAGCGAACCCCTGTTTCGCTCTGTTTGTGAAAGGCTCATTAAT  
ACCTGCCCGGGCGGGCGGTTCGAAAGGG

&gt;Sequence 844

ACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATGTCAGGCTCTG  
TGCTATACTTACATATCCCATAATCTTCAAGACCCCTCAAGACCCACAA  
AGTAACACAAAGCAGGAACTAACTCAGATTTACTTGCCAAAGGTCACAC  
AGTTAATACATGGTGAATCAGGACTCAAAATCAGGCCTGTGTGACTCCA  
AAGTCCAGTGCTCTCTCCACTTACCAGGTAACCTTCAATAATACCGATT

Table 2

GGAAATCAAACCTGTCACTTACTTTCTATGTCCCTGAGTGAGTCACAACCT  
TCTCTCAACCAGCTTTTTTCATGTACCTTGGGCGCGACCACGCTA

>Sequence 845

GGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCTTGGACCAATCAC  
TGTGGCCAAATACATGAGGATCCTTATTGGCTCCTTCTACTAGCAACAGA  
TGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGC  
AGATTGAATAATAAATGTTCACTCTACTACTCAATAAAATATTTGTTGAAC  
AAATCAAAGCTGATCCCTTTTTTCAAAATTTTTAATGTGACTCTTAGGGG  
ATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGG  
TGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCTGAGAAGAGAGAAA  
TAGAGGAAAAGTTGCACAACTCTTCAACCAAGACCACCTAGTGATATAT  
AAGGGATATGTTGATGATCCTCGAAACACTGATAATGCCTGGATGGAAAC  
AGAAGCTGGGAACCTACCATGACGAAACAGGTGAGATAATGGATAATCTTA  
TGCTAGAAGCTGGAAAAGATGCTGGAAAAGGTGAAATGGGTGGACATCAA  
TGATTAACCGGAACCTTTATTGCCAGTCACTCTCAATTCAATAAACTTGT  
GGTTGAGAAAACGAGATGCACCCTGGAGCGAGGACTTCTGAAGCTTACTGC  
CTTGCGTGGAACTGATGGTCTCCGTGTAAGCCAAAGCCCCCGAAGAGCC  
TATTCTTGAAAAAAGG

>Sequence 846

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AATGTAGCTTTCTTAAAATTGTTAGTTAAAATGTTTTCTTTGTTTTCCCA  
ATAAAATGTAAAGTTTAATATGTGATGGCTAAACTCCTAAGGGGATAAGG  
AGGCGCTAGGAGAATAGGCAGGTTGGAAAAGGGTAGTCGGGACTTGTCCA  
GATTCTTGTTGTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGCTAC  
AAGACA  
CACACACCCTTGTGAGCATTTATTAATTCGCAGTTGATGGTGCATAGTTT  
GCGGAGTGGGTAAAGGATATGTTACTTTTGTAAGTACCTCGGCCGCGACC  
ACACCTAAGGGC

>Sequence 847

GGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGTGTTTTAAGTT  
TAGCCTTTTGTGTTTTGTTTTGGTTGGCAGTAACCGATTTTAATGACTAG  
CTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTCTATTGATCCCC  
ACCTCCAAATATCTCATCAACAACCCACTAATCACCACCCAACAATGACT  
AATCAAACCTAACCTCTAAACAAATGATAACCATAACAACACTAAAGGAC  
GAACCTGATCTCCTATACTAGGATCCTTAATCATTTTTATTGCCACAACCT  
AAACCTCTATGGACTTCATGGCTTATTTATTTACACCATCCACCCCACT  
ATTTATTAACCCCTAACCATGGTCCATTCCCCTTATAAATCGGTCTGCAG  
AAATATTTTGGTTTTCCGTTCTAATATTAATAAAATTTCCCCTAATCCCCAT  
TCATAATAATAAGGTAAATCTTCATCTCTTAAACCCCTCTGGTTGTTA  
TAATTGAGAACTATACTTCTACTTATTTAACCAAATAATCCTTGTGCTAC  
TTGCCCGTGCTGTCACTTTTAAAGGGCTAATTTCAACACTACTGGCTGA  
CCTATCCTTGTGTAACCGAGACTTGTGTTACCATACTTTGGCGTTAATAA  
TTGGTATAAACTGATTTCTTTGTGAATATTGTAATCACCATAATAATTC  
CAAAAATACTATCAAGCCTGGAATCTATAAGTTATAAATCACTGTGGTGT  
T

>Sequence 378

TCTTTCCCCTCATATCTATGTTATTTAATATTAATTTTCTTTTAATTGTA  
TTTATTTATTTTATGTATTAATTATTATCATTCTATTCTTAATATATAAT  
TCANNCCCCNACATGGTTTATCTCTGAGGCGGCTTCCGCCCCGGGCAGGTA  
CCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGTATTAGC  
GCCGAGTGGACCTGCTGTAAACCCGTGTGTGCGCTGTGTGTGCGCCAGTG  
CCCGCTTTGTAGGACACCACCTTACACTCACTTCCGCGCTCTCTTTAGTG  
GCTCTTTAGAGAGAACTCTTTCTCCCTTTGCAAAAATGGGGCTTAGAAT  
TGAAACAGGAGTATCGCCTTTGTGGGTTTCGATGCAACAAACACGAGCTT  
TCTTGTGACTTCTAACTTTTCAAATCAAATCATTTGGTTGAAACAGAC  
TGTTGCTTGATTTTAGAAAATACACAAAAACCCATATTTCTGAAATAATG

Table 2

CTGATTCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAG  
TAGAATAAATCCTGCACCAGCAACAACACTTGTAAATTTGTGAAAATGAA  
TTTTAATTTTTCTTTTAAAAAAGAAATTTTTTAAACCATCACACTTTTTT  
TCCCTACCCTTTAGATTTTGATAAATGATAAAAATGAGCCCATATCAAA  
AGAAAACTTGTTTTTACTCCAAAATGGAATAATCTAAATTTCAAATAAT  
GTACCCTGG

>Sequence 379

CGCTGTCTCCATATGTGCTCATGTGTGGTATCTTACGTTACTTGTAGTA  
TATAGCTCACTTTCGCGCTCGGTAGTATGGTATCGTTTGGTCAACTTTTA  
TTCTCTTGATTTGTATATTATCNANTNNNCNNGGGGATGGTGTCTAGAG  
GCGGCTACCGAGGNGCCGGCCGAGGGACTGCTAGCCAGCCAATAAAATAT  
AAACTCCATTTGTCTTAGTTATATAGAAGTGTGTTTCCAGCTTAGAAAA  
GTCAAACCAATGACTTGTAGAACAATCTACTCTCATTTTTTATTCAGCCT  
CTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAATAGGCAAGACCTTC  
TGAAAGTTAACATCTTAATGATTAACAAACAGTAAGTACGCACAACCGAAG  
CGTAGAGTCACACTTGCAACAAAAGGTTACAATATTGTAATGGGCTCTGT  
CCGGTCTGCTTGTCCAGCTGGACCATCTATTTTCATCCTCCTCCTCTGAG  
CTGTCAATTAATTGCTCATACAGTAGAGATCAGTTGTCTCTGGTTGCAA  
ATCTAACATATATTTATGCAATGTAGGGTGTCTCCATGCATGATTACAG  
CTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACAAGACATACCTCGAC  
CGGGCCACCGGCCCTTATATTATGGAATCTTTGCTTTTTGGCCAGAGGT  
CTTTGCTTTTTTCAGGACACAAGGGCTTTTGACAGGTAATACACCTAACG  
TTGCAGTGACGGTGGT

>Sequence 380

TCGTTCTTTTTTATCTTCATTAAGTTTTTCTTTTATACTAGCTATTGTA  
ATATTTTATTTATTGTCTTATAAATTATAATTTATTTATTTACTATTTANN  
ATNNNTNTTGTGANATTGTCTACTGAGGCGGGCTCCGAGGTACGTTAGCT  
CATTTTCCCTTAAGCGGGTTGTGACGTCGTTGAAATTGCAACGCTCAAAC  
TTCCAACACTTGGTATACACTTGTAAACCCAGCTTTGTAAATGAGACACGC  
ATCAAAATCAGATGAACAATTGACGGCTGTTTTGCAGTCAGCAGTTGGGT  
TAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAATGGCAGAATGACAGT  
TCGGACGAGCTAGTAATCTGAACAGGACAGAACTCTCTTTGTATTCCCTA  
TTGTGATTGTTACAGAACTACTTGTGTAGTAGGTTTTAACTACTACACC  
AATTGGTGGCTAAAGACTGTCTCTCTATTTATCCTTTTTTAGCCTCGA  
GCCCGTTTATTCCCGCGTTCCTTGCTCGGGCTGGCCGTTCTAGAACTTAG  
TGGAATTCCTTGGGTCTGCTTGAATTTTATTAACAAGGCTTATTCGATAC  
CCAGTTCAACTTTTGGGGGGGGCTCGGGCACCCAGCTTTTTGTAAACCTT  
TAACTGAGGGGTAAATTAGCTCTGCTTGTGTAATTAATGTTTATAGAAT  
GTACCCTGGGTGAAAATGTTATTCTTTTACAATTTACATTACAACATACG  
ATCCTGGCAGCTTTAAGTTTAAAGTCCTGGGT

>Sequence 381

TTAGATGGCTCACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGA  
CTTAAACAGCTACACCACAGATGCCGAGAGAGAGGCTGGAACATAGCCT  
TCCCTTTGGAGGTAGCCTGGCCCGGTGGGCACTGTGATCTCAGACTTCCA  
GCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAAGCCACTTATTTTT  
GGTACCTGCCCG

>Sequence 382

CCTCTCCTCTCCTTACTTTATATTATCATTACTCTATTATTATATCTTTA  
TACTCTTTATATATTTATATTTGTATTATTTCTTATAATCTTTTTACTGC  
TATTTTATTACNANCAGGGTGTGCTCGTAGCTCNCTTCGCGNGGCGGC  
CGAGGTACTTTTTTTTGTGTGTTTTTTTTTGTGAGACGGAGTTTCACTCT  
TGTGGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGTT  
TGCCTCCTAGGTTCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGG  
GATTACAGGCATGCACCACCACGCCCGCAATGTTTTTTTTTGGATGTTTA  
GTAGACGTGGAGTTTCTCCATGTTGGCCAGGCTGGTCTCAAACCTCTGAC  
CTTAGGGGATCCACCTGTCTCAGCCTCCCAAAGTGCTGGGATTATAGGCA

Table 2

TGAGCCATAACGCCCCGGCGGCAATAATTGTTAACAGACTACATGAGTAAT  
TGCATAAATGGACGATGTCTTTCTCTACTTTTAATTTCCAATGACTTCA  
TTATTTATAAAATGATCTCTTTTTAAATGATCAGTTCCTACATTTTTATT  
CCTTAGAAGCCTCTTTTCCCTTTTTTTTTTTCATCTGTCCCAAAATTTGA  
CACCTTTCTTTAATTCAGTTATTAAGCCACTTTTCTGAGTTTTTTTCATA  
ATAACACCCTTTTACGGACCATGTTAATN

>Sequence 383

ACCCCTCTTCTCTGTTCTTTATTAAATTCCATGCTAAATTTACTTATCGT  
GTACATAGGTCTTAATCTAAATTACTACGTCGATCCCCACATATCTAATT  
CTTCNNNNNNNAAGGGATGTGCTCCTCGCGGGCTCCGAGTACTCCAGNC  
CCCANATTCGGGTGTGGGACACGGCTCTCCATTCTTCTTGGCTTTAC  
AGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGAGCTTCTGAGGATGA  
TCGATAAATAAACACACCTCCTCTTAACCATCCTTGGGCTTCATGGGGGT  
GGCATTGAGGATCCCTACAACAGGCCCTGGTGCCGCTTCCAAAGCGCGT  
TTGGAACCTTCTCCAAATAAGAACAAGGACACACATTGGTGTCAGGGTAC  
GAAGATCATTCAGTTTCCATATGCTCAAAGGTTTTTCCACTATTCACACT  
CTTGTTGGCGGTAACCTTTTTTCAATATTAACCCCCAAATGTCACCCCAAT  
CCTATTTCTTCCAAGCTTCTTTTCTGGCCCATCTTTTCTTGAATCTG  
AGACAAGTCTGATCCAAGTTTTTCGGCCGGTCTAAAACTAATGGGGACCC  
CCCGGGGCTGGAAGGAATTTCCAATATCAAACCTTTATCTGATACCCGTCC  
AACCTCCAAGGGGGGGGCCCCGGTACCCCAACTTTTTGTTCCCTTTTATG  
AAGGGGTAATTTGCGCGGCTTGCCGTAATAATGGGCATAGCTGGGTCCTT  
TGTGAAAATTCTG

>Sequence 384

AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCT  
GAGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAACTGACAAC  
AATCCTGAAGGCCTGGGATTTTTTGTCTGAAAATCAACTGCAGACTGTAA  
ATTTCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGT  
GAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTA  
TATGCAATTTATCAGCACCAGAAAGTTTGGGATGTTTTTTCAGATGAGTA  
AAGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAAT  
TCGTTCAAGAAAATCTTTCAGAGAGCATTAAAAAATGTGACAGTCAGCTT  
CAGAGAAAATGAGGAGAATGCAGTCTGGATTCCAATTGGCTGGGGAACA  
CAGTACCCT

>Sequence 385

TACGCGTACCTCACCGTGTCGTCTGTCTATATACTTGTACTATCTANTTA  
CTAACTAGTCTCGTCTTCTANCACTCTCTCTTCAACTACTACTTATCT  
ATTATCTCGTATTATATATCTCATATTATNGATACTATCATTATAATTT  
AATATAANAAGTATCCGTTGTGCTTCTACGCCGGGCGTGCCGGNAGCAGC  
CGAGGTACTCCGTCTCAGAGGAGGGATGCAAATCTTCGTGAAGACACTCA  
CTGGCAAGACCATCACCTTGAGGTGCGAGCCAGTGACACTATCGAGAAC  
GTCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCTCTGACCAGCAGAG  
GTTGATCTTTGCCGGAAGCAGCTGGAAGATGGGCGCACCTGTCTGACT  
ACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGT  
GGGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA

>Sequence 386

CAGTGTGGGCCCTTTTGAAGTTCGCGGTGCGCCGGGCAGGTACTCCCTGAT  
AAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCTAG  
AGACCGAGTGTCCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTC  
AAAGAGTTGGATATCAAACTGATGGTGCAGTTAACTTCCAGGAGTCCTC  
ATTCTGGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCCTGGA  
CATGTACTCTCAGAATGTTTGTATATGCTTCTTGAATGCATATTTTTT  
AATCTCAAACGTTTCAATAAAACCATTTTTCAGATATAAAGAGAATTACT  
TCAAATCGAGTAATTCAGAAAACTCAAGATTAAAGTTAAAAAGTGTTT  
GGACTTGGGAACAGGACTTTATACCTCTTTTACTGTAACAAGTACCT

Table 2

## &gt;Sequence 387

AACGAATGTGTCCGTAATTGATGTCCACTTCNCACCGN  
CCAGCCGANNTTGATTCTTCAGTCCTNAGCGATGGAGCCCAGGGTCCCTT  
GTTATTGTCCCTTTCTCTCTCAAATGCTTGGCTTGTINTTCAAGAGAAC  
CTGTCTCGGTGGTCATTGCTCCATCGATTGGATCCAGTCCTTCTTCAAAN  
CATTGTTCAAGGCACTTTAANGCTAGCCTGAAANCGCTTGAATCCCTTGC  
TAATACTATTCCAGTGTGATCTGAGAGGGTGGTACCCTCTNGCCCGCCTC  
TANGAACTACNGTGGATCCCGCCNGAGGCTGCATTGGAATTCNGAATATC  
NANAGCTTATTNGAGTACCCCGGCNGACACCTCGACGGGNGCGGGCCTCC  
NGGTACTCCANGCTTATTNGTTACACCTTATAAGTNGACTGAGTTTAACT  
TNGTCGCACCNTATAGGCNGTCAANTACAATAGTGTCAATACGGCTTGTNT  
TGCTCNGTGTGTGAGAAGTTNGATTATCCTGCGTCAACTAATTGCCACA  
ACATAACAATACCGACGCCCCGCGCAGGCTATAANANGTCGTTAATAGCTC  
TGGTTGCTNGCGTNATCTCGAGGTGAGGCTAAACCTCAACAACCTTAAATT  
TGCGGNTCGCGCGCTCAACTGGGCGTGCTCTAACACATGACAGGAGAAAC  
CCTCGTCCGTGCGCACACTTGGCGATTTAATTGAGATTNNGGCCCACTG  
CTCGCCGGTGGAGAGAGCGCGGGTTNACACTATTTAGAGGCGCTTAGTTC  
TCGCTTTCCTTCGACTCAATNTACCTTCCCTTGCGCTTCAGGGCGTATCA  
CGCTTCGCGGCCAAGACCGTAATCATACTCTCATCTCAAAAGGGCGGGTG  
ATACCGCGTTATTTCAACANTATATCAGTGGGATAACCGCAAGTAAATAA  
CACTTTGAGCACAAACAGGCCCCGCAAGGCCCCATACCCGGGAAAAGCGG  
CCCCTCCTTTGCTTGTCTCTAAAGGTTTCGCCCCCTCTGCGCACGAATT  
AAAATATTCGCACCTCTAAGTACAAGGCG

## &gt;Sequence 388

CCGCGCTTTACACATTGAGTGCTCCTTTCCCNCCAGNCGAGNA  
CCCCAGGAGAGATCAAAAATCATCACCAACCATAATATATCATGGACTA  
ACCCCTAAACCTTCTGCTTAATGAATTAACACAAATAACGGGGCAAAGA  
GAGCCACAGCTAATACCCCTAAACCACTAGCTACCTAAGAACAGTAA  
AAGAGCACACTCTTCTATGTAGCAAACTAATGCCAAGACTTATATCTAG  
AATCGACAAACCTACCTAGCCTGGTGATAGCTGTCTGTCCAAGAAAGAAT  
CTTACTTCAACTTTAAATTTGCCACAGAACCCTTTAAATTCCTCCTAA  
AATTAAGTATAGTCCAAAGACGAACAGCTCTTTGCACACTACGAAAAAA  
CCTTGTTAAGAAGAGTAAAAAATTTAACACCCCATAGTTTGCCCTAAAAC  
GCAGTCACTCATTTAACAAGCTGTTAAACCTAAACACCCCACTTACCTAA  
AACATCCCCAACCATATAACTGAACTTACTCACACCCAACATGGACCAG  
ATCTATTACCCCTAAAGAAAAAACTAATGCTAAGTATAAAGTAAACATGA  
AAACATTTCTCCTCCTCATAAGCCTGACTTCAGATTCAAACACCTGAAC  
GTCTTTTAACACCCCAATATCTTCCATCAACCACCAGGTCTTTATTACCC  
TACTGTCAACCCAACACAGCATGCTTCATAAGAAAGGTTAAAAAAAAGTT  
AAGGAACACTGCAAATCTTAACCCCATTTTACCCAAACACTTACCTTTT  
ACCTTACCCAGTATTAGAAAGATCCTTCTTTCCCAAGAAAAATGTTTAAC  
GGGCCCTTAAAAACAACCTGAATCCCCGGCTTCAATAATTCAATACC

## &gt;Sequence 389

CGAGACTAGTGGCGCTCTTGAGGTCGCGGTTGCTCACGCCTGTAATCTC  
AGCACTTTGGGAGGCTGAAGCAGGCGGATCACGAGGTCAGGAGTTTCAGA  
CCACCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAGATACAAAAG  
TGGGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGA  
GAAGAATCGTTTGAACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACG  
CCATTGCACTCCAGCCTGGGTGACAGGGCAAGACTCTGTCTCAAAAAAA  
AAGAAAAAAGGAAAAAAGCCTTTCTTGATGCTGTTCCCAATTTCTCCACT  
AAAACGCCTGCTTTTCTTAACTCCACACCGAACCAACCTGAAATATTTTG  
GCCCAGAATGCCAACAAGAATTGAAGAAAAGATGCTTTACAAAAATAACA  
ATATAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAA  
AAAAAAAAT

## &gt;Sequence 390

CCCAATCTTTCTCCTCGCGAACGCGATCTCTCTGTACTTTATTTAATTTT



Table 2

TCGCTTACGGTGCGATATTT

&gt;Sequence 391

TGNTTGTCTCTCTCCGAGGGCGGCCGAGGTACGCGGGATGGGATTTCTG  
ACCATTTGCCCTGCCTCTTGCAAAATAGGTCTAATGGCAGGATGGTGTCA  
TAATTAAGGCTACCAAGACTGCCCATTTGTTCCAGGCTGGGCAGTTCATAA  
TGGGGGCAGACAATAGTGCAAAAAAATTTTACATTTTATCTTTAGAGTGT  
CAGGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCA  
GGTGAATAGGTGGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGA  
CTTTGAAAAGTGGAGGGCTCATTAGGTGACCCAAATTTTACCTGGGGCAT  
CCCCCTTTAGGGCCCCAACTTAGTCTGTCAGACATCTCTGACCTTAGAT  
GGTGCTGGCACCCTTTGGAATGGTTCCCTCCATCACTGAGGACCTGAC  
TTAAAGTTTTTCTATCTCACTTAAACAACCCCTTAACGCTCTCAACTTA  
GGCAATAATAAATTCCTTTTCATGAATTCCTTCACCACCATGCACCACA  
CAGACCACATGCCCGGACCCTCTGACTTGTGTAACCTTTTGTGCATAGCT  
AGGTGGGGTTTCTGGCCT

&gt;Sequence 392

CTTATATTGCCTTATATTTTATTAATACTATATTTTTCTCACCGTTTTTT  
ATCCATAAATTTTCTTGTTATATATGGTTTTGAACACTCATATAATTTTA  
TTATNTTANTATTATGTTTGTAGCGATTCACTCT

&gt;Sequence 393

CCGGGCAGGTACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAG  
GGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATA  
AGTCCCCTGCCTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCCAGTCA  
GCTTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCC  
TACTAGTGTCTATAAGTCTCTGTCTGAGATCCTGGGGCTCCTCTATTT  
CTAGAAGGGATGAGGTGCCATCAAAAATAACTTGGCTGGTGTAAACAGTTT  
AGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAG  
GCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT

&gt;Sequence 394

GGTGGCCTTACCGGGTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTA  
CCAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTGGCCAG  
GCAATGTCAACGACTTCCACATTCCCTGGCCCACTGGCTGAGCAACCCCA  
GGTTCGGCTCTGTATAAGGACCCTCCCTCCCAACCCCAACCCAGAGTGC  
AGTGCAATCAACCAACAATTTACTGGTGGAAATGGCAATCAAAGGAAACA  
GTTAAACACCAAACAATTTCTTAAAGCCAAAAAATATTTTTTCATGGAGTT  
GAACATTTTTTCGAGTGTGTTTTTTTCAAGTGTAAGCAGTGACATTTTG  
TTCAAACAGAAGCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGT  
TACAGGTATGCATCATGGATTCTTCTCCCTCGTATTTAAAAAGA

&gt;Sequence 395

GGCGACCCTTATCTGGTGGCGGCCGAGTACTTCATTTACACTTAAGCTAG  
AGAGTTAGGATCTTAATTTATTTAAAGCCATAGATTCAAGTTTAGCTTTAA  
CCTAGACAGAAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAA  
TAAGGCAACAGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACG  
TGTCTGGCTATCAGCTTTGTTTTTGACTACTAAGGCCAACCTTTTTTATTC  
CTCTGGATGGTCTGCAGACCAAGTTTCAAGATTTAGGCCAAAAGGATTTCCA  
AATGGATCCCTATACATTTTTCAGAAGATTCAAGGTTGAGGAAGAAGCCACA  
GAGGGCTTGTGATGAACCCAAAGGAATCTTTAAAGAAAGGGGTTCTCAAA  
ATGCATTGGCCAGGTAGATTTGGTTAACTTGGCAGGGAAAACTTGTCTG  
GGGAGC

&gt;Sequence 396

TACGGAGCCCCGGGAGCCATAAAAAAGTGTTAAAGGCCTGGGGGGTGCCC  
TTAATGGAGTGGAGGCCTAAACCTCCACAATTTAAATTGGCGTTTTGCGG  
CTCAACTGGCCNCGGCTTTTCCAGTACGGGGGAAAAACCTGGTCCGTG

&gt;Sequence 397

CTCTTAGTGGAGGGGTTAAATTGGCGCCGCTTGGGCGTAAATCAATGGG  
TCCAATAGCCTGGTTTTCCCTGTGGTGGAATAATTGGTTTATCCCGCCTCA



Table 2

CAAATTTGCCACCACAAACCATTACCGAGGCCCGGGGAGGCATTAAAAGG  
TGTTAAAAGCCCTGGGGGGTGCCCTAAATGGAGGTGGAGCCTAAACCTG  
CACCATTTAAATTTGCCGTTTTGGCGGCTTCAACTTGCCCCGCTTTTTTC  
CCAGGTCGGGGAAAAAACCTGGTCGGTG

>Sequence 398

GGGACCACTCACCGGGCGGCGGCCGAGGTACAAAATTTAGAGGTTTCCCC  
TTTATCAACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTC  
TTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTAT  
CTGAGCATCTGGGCCTGCCCTGAGTTGTCAAGAAATTTCTTATCTCTGA  
AGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTCT  
TGCTCCTTAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACA  
CAGTTTATGGGACTTTTCTGTGAACCTACCTGAGGGCAAGAACCATGTCCC  
ACTCCCTGCTTGCTCCTCAAATATTTTATAGGAAAGCAGTCCACAGTCTC  
ACACAGAGGAAACATGAAGTTTAAGTTCTAGCCCTATGA

>Sequence 399

GCCTCCTTCGCCTTCTATCTCCCTTCGTATTTATTCTGAATCTGCTCAGA  
TACTCATCTCTTCTTCTTATACGTATTCTATTATTTCTGTTTACGCTCAT  
AGTGATTNACTCTTTTTAATAAAATAATATATGGGTTGTGCGCGGAGGCC  
GCGGAGTACTCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAG  
ATTTTCTTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT  
TATAATTCTTCTTGGAATCCTGGGAGCCACATTGTCAGCCCCACTTATCC  
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT  
AATAATGGTCAACTTTTGCCACTACAACCTTCAGGGCCCACTTAATTCATG  
GATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC  
CAGGACTCTCCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTG  
CTCCCAAATCAGATACCCTTAACAGGAGAGGCCAGTTTGCCCAAAGGAG  
CCCAGGCAGGCCAAGGTGATCCCTTAACGTTTTAAACACCCCGCTAAGAC  
ACAACCAGGCCCAATCACGTGAAGCCCTATGTATTCTCCTTCAAAAAGC  
CTAAAGAGGCAGGACAGATGTTTAAATACTATTCCAGTTACATGGGCCTA  
CCCTGGGAACCCCTCAGAAACAGGTTCCAGGGCACCTTAACCAAACAGA  
ACGGTATCTGTTTGGGGAGCCCATTCATTTTTGCTTAAACG

>Sequence 400

TGTGTATTGCCGAGGTACAGACAGTGCTTGATGTTTCAAAAAATACAAT  
GCCCTGGTAATGTCTGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCT  
TGATAAGGCTTGTTGCTCGCTTCATAAACAACAACGCGGTTACCAAGATGG  
CCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTGACTCC  
TTGTTGAAGAAAAGTTCCAAGAACCCAGAGGAGGCAGAACTAGAAGACAC  
ACTCAATCAAGTGATGGTTGTCTTCAAGTACCTGCCCCGGCGGTGAGCG  
GCCGCCCGGGCAGGTACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGA  
TTCGAAATACCAAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCC  
TGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTAAAAGTAAAGCTCTA  
GAGGCCGTCAAATTGGCAATAGAAGCCGGGCTCCACCATATTGAGTGTGC  
CCATGTTTACAATAATGAGGAGCAGGTTGGAAGTGGCCATCCAAACCAAG  
ATTGGAAATTGGCATTTTGAAGAGGGAAGACCTTAATTTCCATTTCAGAGG  
CTTGGGCCCAAATCCATTCTACCCCGGGTGTTTCAACCGCCCTTGAAGG  
GGGCCTCAAAAATATTTCAATTATGCCATG

>Sequence 401

GGTCGATCGGCGGTGGCGGCCGGTTGACCTTGATGTCACGAGCAATTAG  
GAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCACCAA  
CATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTG  
TTCCTGTTGTAAGTGTAACAACACACTGCAGCTGGTAGTAGAAGCCTCAC  
GGGATACTCTGCGACAACCTACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCCGTGGTGTGCAACTGCAACCAGTAACCTGCTATGGCCAATTG  
TGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCCTG  
GGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGA  
GTGAGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGGAAAACCTT

Table 2

ACTTTTTTCAATGAGCATTTTTGCATCAAGGGGTAACAGGGACATTAGGC  
TTTTTTTTCTTTTAACTTCCAACAGGAAGGGTCGGAATTTATCAAGACA  
TTACATAGGAGTTAGGGCACAGCCACGGGTGGTGGTGGGGAGGACATTTT  
CCAGCCTTATTAACAGGGTTTATTATAAACAGGGTGGGCCCCACTACTTGT  
CTAACCTAATTCCAGGTCAAGATGTGT

>Sequence 402

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACATATCC  
TCTGTGGGAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCG  
CTCAAACCTGGAAAAAGTATCTCAATGTCTGAATGTGGGAAAACCTTTAG  
CCGAAGTTCTTATCTTTGTTTCGGCATCAAAGAATCCACACAGGCGAGAAGC  
CTCACAAGTGCAGTGAGTGGGGAAGGGCTTTAGTGAGCGCTCCAACCTC  
ACTGCCACCTACGAACCTCACACAGGGGAGAGGCCCTATCAGTGTGGGCA  
ATGTGGGAAAAGCTTCAACCAGAGTTCAGCCTCATTGTCCACCAGAGGA  
CCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTC  
AACAACAGTTCACAGTTCAGTGCTCACCGGCG

>Sequence 403

AGGTACCAAATTAAGTATTAATAATGAGGATTGAACTGGGGCAAACAGGTT  
ATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAACTACTG  
TTCCTCAAGATTAGAAGATGTCCACACTCTTGCATTACCTCCCTAAAGG  
AGGAAACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAATA  
TGAAATGAGGAGATGTTTTAGAAAGCAGGACATATCTACCTACCATTACT  
GGAATTAAATGTATCCTCTGGGCCCCACTCCATTGATTCCGATCTGAGGT  
GAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAAGACTGAATAAGATGAA  
AGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGGAAAAAA

>Sequence 404

TGGGGTGAGGTTTGATNCAGGGTCCGCCGCCCGGGCAGGTACGGACGCCC  
AGGGATCCGCGCCGAAGCTAGCACGCAGCCTACCCAACAGTCTACACAGC  
CGACCAAAGCCCCCGCTACCCAGAGGAGTCGCTGGTGAGTGGGAGCTCA  
ACCCTGTTCAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTGCGGC  
ATTGTGCAGATACACACCCCGCAGGAACATCCCTCCTTATTTTGTGGCTT  
TGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTTCT  
CCAGGCTTCCAACCTGGTCTTTTTACCCTTTGCTGGTGATAAAAGGAAGAT  
GCCTTTTTCTGAAAAAATTATGGCCCCCTCCAAAACCAGGGGGCCATGAAG  
AAGTGTTTTTTAAGAAAATGCTTTTGCTTAACAATACAGAAGGTGCCATT  
TTAAAAATCCCCCTTGTCTGCATTAACCATTTTAGGAACTTGGAGGCCT  
TTGGCCCTTGATTTTTATGGGACCCGGAACATAGCAGGGTTCCTAACTT  
TCCCCAAGTGTAAGCTTTGAATAAATGCCCGGGCCTCTCTGGGTGGTAA  
TTATAAGGGTTGTTGTTTCCCCCAAAAATTAATTTTTTGGAGGGTAATC  
T

>Sequence 405

GGGCGTGTGTAGATCCCACTCCGCGGTGGCGGCCGAGGTACGCGGGGGGC  
GGCGGCGGAGAGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGC  
TGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCAACTTCAGCTA  
CAGTGTTAGCTAAGTTTGGAAGAAGGAAAAAAGAAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTTGCCAAAGTCGTCGTTGTAGTCTTTTGGCCAAGG  
CTGTTGTGTTTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTTAAC  
AAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCAGAAGAGCCAG  
CGGGGTGCGCTAGTGTGATGACCAGGGCGGGAGATCACAACCGCCAGAGA  
GGATGCTGTGGATCCTTGCCGACTACCTGACCTCTGCAAAATTCCTTCT  
CTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTG  
CGGTGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTGACAG  
CAGTCTACGGCCTGGTGGTGGCAGGGTCTGTTCTGGTCCCGGGAGCCATC  
ATCGGTGACTGGGTGGACCAAGATGCTA

>Sequence 406

TGAAATTGTTGTCCTGNGATTACCTCCCCGCGGTGGCGGCCGAGGTACAG  
TTCACAGTGCTTGATGATAATAAATGGTTATTTTACTGGTTCATGTATTT

Table 2

ACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTATGTAAA  
AAAAAAGTTACCTCAGGGAGGTCCTTCCTGAGGTCTTCCAGCACACGGCA  
TTGTTATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCAC  
CTTCCAGTGGGAAGGATGTGGAGGTGGAAAGCATACTGATGATTTTGTC  
CCGTGGAGGCCTAAGCTAATGTGTGTGTTTGTGTCTTAGCTTTCAACAAA  
AAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAAAGTACCTGCCCCG

>Sequence 407

TGGGGCGTTGGCCCTCTCCGCGTGGCGGCCGGTGTGCTCATCGTAGCCTC  
GGG

>Sequence 408

GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA  
GGCATCCAACCTTTTTACCAAACCTTAAAGTTTTTTTCCGATTCAAGTCGCC  
TCATCTTCAGGAAAACCTTCCTCTTCCTTCATATAGTCATGCTTGTGTTA  
TGGTCCCAGCCTACCGCCATGTTTTACAGAAGCCCGGGTCGCCGGGGCTC  
CCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAATGACACATT  
ACCTCCACACTCTCCCGGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT  
TCTGTCTTTGGTGGGAGGAGTTGACAGGGATGAGGGTCCAAGGAAT  
TAGCATGAATGACAAGATAACAAGGGAAAAGAGTTAACCTGTACATAGT  
AGGTTAACTTTTTTCAGGGTTTGGCAGTAGAGGTATTCGAACTTTCACTG  
GCTGAGCCAGATCACGGGAACCTGGGAGCTTTTACTGTGATTCCTCATGT  
AAAAAATTAACAACAATGTCAACTGGGTTGGATGATTTGTTAAGGCCTTT  
TAGATTACTTTTAATAACATTTTCCCGAAAAAAAAAAAAAAAAAATAGTAC  
TGCCCGTTTAACTGGGGTCCCCCGCCTGGGGTTTCTTTCACTTTTCTT  
CCCGACTGGG

>Sequence 409

CCACTCGCTTCATCTATTTCTATTTATCCATATACTCTGTTGTTCTTGGC  
GCTATATATTTGTGTATTAATACTTTTTTTTTCTTCCCACTAATTTTGT  
GATCTACCTAATATTTTCTTCAATCTNTTTTCTATATTTTTTTTCGNAA  
TTTATTTTTCTCATCCGGTGGCGGCCGAGCACCTNATTTTTTTTATTTT  
GCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCTTCATCCTTTAT  
TCCTAAACATTTACTTATGACAAATGTAACGACTGACAGAAATTTGAAAA  
ATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAATTTACCCCTTC  
TTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTTTTTTAGTTTGAA  
CTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGACGGGTATTAA  
AAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCTTCG  
GAAAGTGGTTGGCTACCCCGCGTACTGTCCCGGGTTATATTATTTTAT  
TAATTTTTCTTTTTTTCTTCTGTCTGCTGATGGTTCTTCTTTTTTCTTC  
TATTTTCCCCCTTTCTACATAAAATCCACTTTTTTCAAATTTCCCCATC  
TTGCCTTATTTTGTGTTAGTTTCTCCTTTGTTTCCACTCTTGTTGAATT  
TTTTTATTTTTCATTGTCCTTCTTTCCTTTTTTACAAGTTCTAGCCTAT  
CCCAGGTTTTTAAAGGGTTTTTTCCTAACTTTTTTCCACTCGGTTATTCAA  
TT

>Sequence 410

TGTA CTGATGCGTGGGCGGCCCGGCAGGTA CTGTGCAGTAGTAACCATA  
ATTCTAAATGAGGATTATGGATTTTTCTGGAAGATTCTTTTTTCTGTGG  
AACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTGTATGAA  
GACCAATTCAAGAAAAAATATATGTATGTGTGTTGGTGTATATGTGTGT  
ATATATGTATATATGTGTGTTATGTCATACGCCNATGTATGTTTATATAT  
GTGGTTATACACACGCACGCACACACTGACACACGATGCACACATGCAC  
GCACAACCTCACTCTATATTTATTTCTCTGCCTTCCCTGGGGGACTGATGC  
CAGAACCTCTTGATAGATACCACATCCGGGGGTGCTCATGTCCCTCTGCC  
AATAGCTTAGTCCGGCTGGGCATCGTGGCTCACATTTGTAAACCGCACAC  
TTTGCAGCCCAAGCCGGCCGACCACTTGATGTCAAGAGTTTGGGACCA  
TCCTGGCCACATTTGTTAAACCATTTTTTTTCTTAACCTACAAAATATTT  
GCGCATGGGGGACCGCCCTATCAAATTCACACTAATGAGGCCCGCGCA  
CGAGAATGGTTGAACCCGGGATGGGGAGGTTACAGGGGCCCTATAGCATGC

Table 2

CCATTTCTCCAAGGGGGG

&gt;Sequence 411

TGTAGATCGTGC GGCGGGTACGCGGGGTGCTGGGATTACAGGCACGAGCC  
AGTGC GCCCAGCTGCCTGTGTTTCTTTTATTAGCTGATCTGGACTGAGGG  
GCTCCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAA  
CTGGCCCGGT CAGGGGGGACATAACCATTTCCTGTGCCACCCCATCAGTA  
CCCACCTATTGTGAGCGAAGGCTCCTCCCCTGCTTGAGTAATGGCCACAG  
ATCTTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAG  
ACTGGCTCGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCA  
CTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAA  
GTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATT  
CTCCCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGT  
AGTTCCTAACCACGCAAGGATCTGAAAAGTGCCTCAGAAGACTACTAGA  
AGAGACGAAACGAAACCTGTGCCTCGAGCGGTCCGCCTGGCAGGTACAAG  
TTGTAGTAAAACAAAGCTTAAAGTTTTTTCATCTTTCTACAGCAAATGGT  
CAGTTATTTATAAACCT

&gt;Sequence 412

GTTGATGGCGCGCCGGCAGGTACTAGAGTTTTCAAGTATGTTCTAAGCAC  
AGAAGTTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTGAAT  
ACCTTAAGAAAGTTACAATTAGCCGGGCATGGTGGCCCGTGCCCGTAGTCC  
CAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGG  
AGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAA  
GAGAGACTTGTCTCAAAAAAAAAAGTTACACCTAGGTGTGAATTTTGGA  
CAAAGGAGTGACAACTTATAGTTAAAAGCTGAATAACTTCAGTGTGGTA  
TAAAACGTGGTTTTTTAGGCTATGTTTGTGATTGCTGAAAAGAATTCTAGT  
TTACCTCAAAATCCTTCTCTTTCCCAAATTAAGTGCCTGGCCAGCTGTC  
ATAAATTACATATTCCTTTTGGTTTTTTTAAAGGTTACATGTTCAAGAGT  
GAAAATAGATGTTCTGGTTGAAGGCTACATGCCGGATCTGGTAATGAACC  
TTGTAATGCTGTATTTGCTTCACGGCTTACTATAAATGTTACTTAATACA  
TATCAACTTATTACAATTTACTATAGAGGGTATAAGTAAATTAATCTCTA  
TTT

&gt;Sequence 413

TGGATGTGTGGGCCGAGGTACCTAGTCTATATGAGTTTGATGCTTACAGT  
CAAGGCTATTAGCAAATATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGA  
GGGAATGAATAGTTTGTCTAGAGATAATAAAAGGAAGGTGAATTTTTTAA  
AAGACAAAAATAAGGCTAGAAAAGACTGAGTGGAGAAAGCCTACAGAATT  
TCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGG  
AGGACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCC  
TGTGGTTTTGGAAGTGTCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAA  
ACCCAGAGAGGGTGCTTGAGAATATACAAGAACCCTTGCGGTGGTGACTG  
AACAAAACGCAGCCAGGGATTCATCAGAAGCATAATCCATTTCATGGCAC  
CAGTCTGGCAGTGCTGGGGAGCTGGTAAGATACACACAGGCCCAAGTGTC  
AGTCTTGATTTGATATGCTGGTATTTTGGTTCTGTGGTATTCTTTTATCA  
AGGACTAAGGGTTCCCATGTGCCTTCGAGGGGCATATTNTTCCACCGACA  
CGTCGGGGTCTAGGCCTACGGTGGCTTTAACCTACTTCTACCCCACT  
T

&gt;Sequence 414

TGGAGATCTCCATCGGGGGCGGCAGGTACGCGGGATCCAAGATGAAGTGC  
AGAGAAAAATAAAGAAATCCAAAGTCATAGTCATGAGGACAGAATAAAGACA  
TTTTATGCCTTTTTGTTTTGTTTTGTTTTCTTTTTTGTGGAGAACAGGGT  
CTCTCTATATTGCCCAGGCAGGTCTTGAATCCTGGGCTCATACTGTCT  
CCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGC  
CCGGCCAGAATAAAGACATTTTAAAACTAAAAAAAAAAAAAAAAAAGAGTT  
TGCTTTGCATTAATCTTTTTTTTCTTTTTTTTCGTTTTTATTTTTTAGTT  
TTTATTTTTTTTTGAGACGGAGTCTCACTCTGTCAACCAGGCTGGAGAGCA  
ATGGCATGGTCTCGGCTCACCGCAACCTCTGCCTCCTGGGTTCAAGTGAT

Table 2

TATCCTGCCTCAGCCTCCTAAGTAGCTGGGATTACAAGGTGTGAGCCACC  
ACGCCTGGCCAGAATAAAGACATTTTAAAACTATAAGAAATAAAATAAAA  
TANTTGTAATACTAACTCAAATTTTAAAAAAAAAAAAAAAAAAGCCCC

>Sequence 415

CTTGAACCTTGTTTTGTCTGCTTCCGCTAGCGGATTTAGTTAACTCAAAGC  
TGTAATTCGGGTATCTCAAATAATGTGATTACCCCGGAATTACCTTTTT  
TCAATGGTCTCTAAAATGCCATAACCTTATAAGGGCCGGTTGATTACGCT  
TTCATATAGTTGGCCCCCTGCCAGTCTATAAAAAAGT

>Sequence 416

TGGTGATCGAGACCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGG  
AGGACCGTGGCCAGCCAGGGTCGGTGAAAGGATCCCAAATGGCTGGGCGA  
AAACTTGCTCTAAAAACCATTTGACTGGGTAGCTTTTGCAGAGATCATACC  
CCAGAACCAAAAGGCCATTGCTAGTTCCCTGAAATCCTGGAATGAGACCC  
TCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGG  
GCTTACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGA  
GAAGAAGTTTAAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTG  
CCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGG  
GTGTCTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAA  
GATGAAGAACCTTAATTCATTTGATCAGATGACCATTGAGGACTTGAATG  
AAGCCTTTCCAGAAACCAATTAGACAGAAAAAGTATTCCTATTGGCCTT  
ACCAACCATTGAGAATTATAAATTGAGTCCAGAAGAGCTTGGCCTTGAT  
ACACATCTGACTTAAATATATTTTCAAAAAGAAAAAAAAAAAAAGTCCT  
GCCGGCGCC

>Sequence 417

TGAANTTGATGCTCTCCGTCTGCGCGCGCGGACCTTTTTTTTTTTTTT  
TTTTTTTTTTTTTGAGAGGGAGTTTTGCTCTTTTTGCCCGGGCTGGAGTGC  
AATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTTCAAGTGA  
TTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCCACCACC  
ATGCCTGCCCAATTTTGTATTTTATAGTAGAGATGTGGTTTCACCATGTTG  
GTCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCTTGGCC  
TCCCAAAGTGTTGGGATTACAGGTGTAAGCCACCGTGCCCGGCCATCAGT  
TGTATTTCTATATAGTAGCCATGAACAATCAAAATGAGATTAAGAAAATG  
CCCTTTTTAATTGCTTTTAAAAGAATAAAATTTTAAATGATTAAATTTAAA  
CCAAGAAGGGCCAAACCCTTTCCCTTGAATATTACAACTCTTTTGAAG  
GAATTCAAGGAAGTGAAAGCCCCTTCCTGTTTTCGGGTTTTGAAAATAT  
TTTTTTAGGGGGGGCTCTTCCCAAAAAATTTTCTAAGGTGGGGGGCCTT  
TCTAAAACATTTTTTTTTTTTTTAAAAAAGTTTATTTTTTGGT  
AGGGGGGGGGCCAAATCTTAAATTTTAAAAAACCCCTCTTCTTTT

>Sequence 418

GCTGTGATGCAATCCNACTCACCGGGTGGCGGCCGAGGTACGCGGGATTT  
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AAGATCCCTGTTGCAAGAAATTCATTTTATAGTGAGGGAGGTTGGCATGG  
AGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATAGAATCCTGATG  
TGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTA  
GCCAGAGGTCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCGTT  
CCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCAGCATTGCACAG  
CCCCAGGCACAGTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATG  
GGTTGCCCCAAAAATGTGATGTGCTTCATGTTTTCTGACTCATGGATC  
TGGTAGAGACCATAGACATGATATAGACTAACTTGCCCATTTTTCACAAG  
AGGAAACCATGCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTGAAG  
GAAACCATGTGCTTCATGAAACCTACAGTTGACAAGGGAATGTACCTTGC  
CCGGC

>Sequence 419

AGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGAAATAAC  
AGGTCGTGATTATTTCATGGGCACAACTGACTCATGGCTGGGGAAGAAG  
CAGCCACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTG

Table 2

GGCTTTTNGGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTT  
 TCTCCTTCTCTCCTCTCACCTCCTCTGAGCACAGCTTCAACAAAACT  
 TTGCATACCCCGGTACCTGCCCGGGCGCGCTCGAGGTACTTCTCTGA  
 GCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCC  
 CTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATAT  
 TCTTTTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAAGGAGGCTTCCCAA  
 CTAAAAATTCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCA  
 TCATGCATGCGACCTTCAATCATTTACAGGGGGCAGGTAGTCCAGGGTGCC  
 ACAGAGAGTGGTCCTGCTGGAAGAGGAGCATGTACCT

>Sequence 420

NCCCGATGCGNCTTACTTGAGGCGCCCGAGGTACGCGGTGGTGGCGCCA  
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 CGAGAAGGGAACGGAGTTTCATCAGGTAGATTGGTTTTTGT

>Sequence 421

GAGGGGATCATCCGACCGGGGGGGCGCCGCTGCCCTGAAAGACCTCC  
 TGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGA  
 GGGGCATTCAGCAACAATGAGAGAATTAATACTTCTTCAGAGTCAGTTT  
 CAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACACTT  
 TCAACAAACAGCAGTGGCTTAAGTGTATTTCGTCAAGCCAAAGAAACAGTT  
 TTGTGTGCTGCCGGCAAGCTGGGGTGGTGTGACTCCGAGGGATCGTTCT  
 AAATCCCAACCGGGAGCAGAGAGCTACAGGGAGAAACAAACTTGAGC  
 AGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAG  
 GTCAGCCTCGACTGTGAGCGCATGGAACAGACAGACTCTTCTGTGGA  
 CAGCAGGCACGGTGAAAGTAACGTCTGACAGAAGCATGTGCACTTCGGGA  
 AGCAGGCCTGCATCTTACCTGTACCTTGCCG

>Sequence 422

GGGCTATGTGCANTNTTTTTTGAANNCCNANCTTACCGCGGTGGCGGCCG  
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 ACAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAA  
 ATTTAATATATTAACAAGAGGCATCTGCTAGAAAACATTCTATTGTAT  
 ACATACTGAAAACCTATAAGGTCCCTGGATAATTTTTGTTTGATTATTCA  
 TTGAAGAAACATTTATTTTCCAA

>Sequence 423

TTTGANTNGCCACTCCACCGCGGTGGCGGCCGAG  
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 AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACAT  
 GNGTAATGGAAGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAA  
 TTAGACAGGGGGAAGTAAATTATCTTTTTGCAGATGATATGACTTATAT  
 GTATTATAGAAAACCTGGGCCAGGTGCAATGGCTCTTGGCTGTAATCCT  
 AGCACTNTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTCAGAAGTTGA  
 GACCAGCCTGGGCAACACGGTGAAACCCCGCCTCTACTAAAAATACAAAA  
 AAAAAAAAAAAAAATTAGCCGGGCGTGCGCATGCTAAGGCAGGAGAATT  
 GCGTGAATCTGGGAGGTGGAGGTGCAATGAGCTTGAACTTGCCACTGC  
 ACTCCAGCCCTGGGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAC  
 GGAGAGAGAACCCTCAAGATTACGCACACACACAGAGCCCCTGCTTGA  
 ATAATAAATGAGGTACGCCAAGAAGTTCCGGCATATACAATCAACAGGCA  
 AAAATCCCTTGGTTTCTTAGCCCTGGCATTAAAAATTNNAAAAAGAACTTA  
 GGATACCGGTTTCATTTTATTGCATTCAAAAAAAAAAAAAAAAAAAAAA  
 GAACTTGCCCGGC

>Sequence 424

TGAATGATGANGTCNCTTCCGCGGTGGCGGCCGAGGTACTGCCGTAGCCG  
 CTCCTCCCGCAGCTGTGCCGCCTCCTTGTCTCCTCCTCATTGTCACTGC  
 CAAACAGGTCAATGTCATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGC  
 TTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGT

Table 2

GTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATC  
ACCAAGTTTGAGGAGCACGTGCAGAGTGTGCGATATCGCAGCTTTCAACAA  
GATCTGAAGCCTGAGTGTGGGTACCTGCCCCG

>Sequence 425

TGGATGATGAAGTCCTCACCGCGGTGGCGGCCGAGGTACTAAGTGGTTTA  
AGGATGGAAAAGAGCTAACAAGTGACAACAAATACAAAATAAGCTTCTTC  
AACAAAGTATCCGGCCTTAAGATCATCAATGTAGCGCCGAGTGACAGTGG  
GGTATACAGATTTTGAGGTGCAGAACCCCTGTTGGCAAAGACAGCTGCACAG  
CTTCATTGCAGGTTTCAGGTTGGTTGATTCTTGGGCTTTTCCTTCATCA  
TTATAATAATGTAGTTCCTGATTTTCATAAATGTATATGGGTTGTTACAT  
CTTCTATAGGATAACATGAGTCCGACATCTTCTGAATCAGCAAATTCAGA  
GGCAATACCATCTCAAGAAGCCACCATTGAGACCACAGCCATTAGCTCAT  
CCATGGTCATCAAGAACTGCCAGAGGAGCCATCAAGGCGTCTATTCTCTT  
AAAATGAGAGGCAGGACTGGCTAGGGTGATGCCTAAAGATGATTCCCAGG  
CTTGACATGCTGGTATTCTTACATATCTATTCTGGGCTGTATAATCTGTG  
CGATGAAAATTCCAAAACCGAGACAGGAATTTCGCACTTGTTAAAGTGGA  
GCTCCAAGCCTGAGATCCAATTGG

>Sequence 426

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TGTGGGAAAGCCTTTTGCCAGAAACCACACCTGACCAACCATCAGCGAAC  
ACATACAGGAGAAAAACCTATGAATGTAAGCAATGTGGAAAAACATTCT  
GTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGGGAGAAG  
CCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCT  
CACTGTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGGATGTAATG  
AATGTGGGAAAACCTTCCGTCAGAAAGTCGGCCCTAATTGTTACACAGAGA  
ACTGTATAGACAGAAACCCTATGGATGTAATCAATGTGGAAAATCATT  
CTGTGTGAAGTCAAACCTCATTGCACATCATAGAACACACACAGGGGAGA  
AACCCTATGAATGTAATGGTTGTGGAAAATCATTCTATGTTAAGTCAAAA  
CTAACTGTACCT

>Sequence 427

GAAATGATTANTGCCTGACCGCGGTGGCGGCCGAGGTACCTTACTTAGCA  
GAGCACTTTGCAAACATATTACTTATTAGCAGAGCTCTTTGTAGACCTTC  
CACATCTGGCTGTGAGATCTTAAGGTTGTGAATTTAGGCTCCAGTTATAT  
TCACTGGAGAGCATAATCCCACACGGGTTATTTATAAATACAGAGCCTCT  
GATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCT  
TCACAAGGTAAAACCTTAAAAAGCCAACCAACAAATGCTCTCCATTCTA  
CTTTTAATTGGGCCAAACAGCATATGCTACAGTAGTAACATGTTTTTCGG  
AGAGTGTAaaaaactctgtttacatttgcctcctccgtgggttgatcgaa  
aatgtataaaaactgactgcttctcgccagcctcagacaagaagagtgagc  
tgctgggt

>Sequence 428

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TAATTTACTTCTATCTGACTCTACCTCTATCATACACTATTCTGCTAA  
TAAGTTTGTATACGATTATTAGGTGTGAGAGCATCATCATTACCACA  
TACAANTAAGGGGNNNGAGTTGATTTGATGCNCCCTTCGCGGAGGCGGC  
CGAGGTACAATTCATCTAACTTGCGGAAAGCACTTTCAGGCCAAATGCAG  
AAACGTCCCACATGCCCACCAGGAGCAAGCTTCAAAATGTTCACTTGGGG  
CATTAGGCAGAGTAATTCCAGGGATGTTTCTGAAGGCCTTGATGATACCA  
TTATCCTCATTATAGATGATGCACGGGCCCTGCGCTGGATACCGCGACG  
GTTTCTCATTTTGCTTTTGACAGCTCTCATTGCTGAGAGGCATAGACCT  
TTTTGATATCATTCCAGGCTTTAAGGCTTCTTAAGGAGCAAAACAGCTTC  
CTTGGTCTTATTGTAGCCTTCAACTTTATCTTCAACTACCAAGGAAGTT  
CAGGAACCTTCCTCAATACGATGACCTTTAGACATGACCAGTGCTGGTAGG  
GCTGAGGCAGCCAGGGCAGAACAGATGGCGTATCCTTTTGGGTTCCCGC  
GTACCTGCCAG

>Sequence 429



Table 2

TGGGGCGTTGTTCTAACC GCGTGGCGGCCGAGGTACTTTTTTTTTTTT  
 TTTTTTTGTGATCTCAACTGCTTTTAGCAAGTTGTGAATATACTTGGGC  
 TTTCTGTCTTTCCCCAAAAGCAATTTGGGATTATTTTCCTCCTTTTTTT  
 CTGCATTTTCATATAAATACTGTCATATTCATACACAGTAGCATCTTCTG  
 CAAGGGCCTTCTGGATTTCAGTTTGGTCTGTTTCATGGCCTGCTTCTTA  
 GCAGCTTCCCTCTGAAGGCTTTCACCTCACAGAGGTCTCATCATCATCATC  
 AGAATCATTTCCCAAACACTGATGGTTTTTGCAAACAGGGGTGCAACTGCT  
 GTGTTTTCTTTGGCAAATAAGCCCATACTACCTGCCCCG

>Sequence 430

TTTTCCGTTGTTCTCATCCGCGTGGCGGCCGAGGTACAGACAAAACACTAC  
 AGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGT  
 ATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTC  
 AAAGTCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTG  
 TCAATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGT  
 TGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATT  
 TGAACCGAACACATTAAGTCCAGAGAGTAACTTGAATGGAATAACGAC  
 ATCCAGAGAATTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAA  
 ATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTTCAAGTGGCG  
 ATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCAGGCTGCAGCCCATT  
 CGCAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTTGGAAAGGACAT  
 TTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCAAGTTC  
 ATCAGATGTTACCATGGCACCCGAGAACACCGAAGTAATTCAGCATAA  
 GCGGGAAGATN

>Sequence 431

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 TGCTCCAGGACAATTGCTGTGGCGTAAATGGTCCATCAGACTGGCAAAAA  
 TACACATCTGCCTTCCGGACTGAGAATAATGATGCTGACTATCCCTGGCC  
 TCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCGCCCGGGCAGGAC  
 GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAG  
 TGGAGGAATGCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAA  
 CACCTCAGGAAAAAAAAGCTATAGAAAGGTTAAAGGCATTAGGATTTCTT  
 GAAGGACTTGTGATACAAGCGTATTTTGGCTTGTGAGAAGAATGAGAATTT  
 GGCTGCCAATTTTCTTCTACAGCAGAACTTTGATGAAGATTGAAAGGGAC  
 TTTTTATATCTCACACTTCACACAGTGCATTACACTAACTTGTTCACT  
 GGATTGTCTGGGATGACTTGGGCTCATATCCACAATACTTGGTAAAGGTA  
 GTAAATTGTTGGGGGTGGGGAGGGGGGAACCTTGAT

>Sequence 432

GGGCGTGTTCGATTACCGCGGTGGCGGCCGAGGTACCACTGCTTCCCGG  
 GACTCTGCGTTGTTACCACTGCTTCCCGGACTCTGCGTTGTTACCACTG  
 CTTACTGCGTTCCAGCATTTCTTTTCTTCTCGTTTCCTGTAGATTCC  
 GGCTAATGGTTTCCCTGGCATTTGACTTCGTGATGTGTAAGTATTCTC  
 TTCCTGAAGGGGGAAACGCATTCCAGAGCATTTGTTCCGGGCTCATGTAGG  
 AATAGATCTTTGACTGCCCGGTAAATCCCGCGTACCTGCCCCG

>Sequence 433

GGGATGTGTTTGAATNTGCNAGCTTCACCGGNGGCGGCCGCCCGGGCAG  
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 TTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTTGGAGACACGGT  
 TTCATTCTGTCAACCAGGCTGGAGTGCAGTTGTGCATTATGGCTCACCA  
 CAGCTTGAACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGT  
 AGCTGGGACTACAGGGGGACACCATCAAGCCCCGGGTAAATTTTTGAAATT  
 TTTATAGAGACAGGATTTTACCATGTTTCCAGGCTGGTCTTGAATTCCT  
 GGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTCTGGGATTACAG  
 GCATGAGCCACCACCCCCACCTGTCTATTTTACAATTTTCTTTGAGCT  
 CTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAA  
 ACTGCTGACTCCCTTATCTTTTCCATAGCACCCCAAGCCTAAAACCAGA



Table 2

CTGGCACAAATGGTACCT

>Sequence 434

TGGCTATAGAGACTTCCTCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGC  
TCATCCACTCTATCATTTAGATATCCAATTTTCAGAATGTGCTCAACATT  
GGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGGAGTCTCCCAGAAGAA  
TTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTCAAG  
GCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTT  
GAGCACCCCCTATGAAAAATATAAATCTTTTGAACAGGCTTTAAAAATTC  
TATTTGTTGGATTTTCATATTTTGGAGCTCTTAATTGATGTCACTATTAT  
TTCATCATATTTGTAAATACATCTTTGATACTAGAGATCTCAAAGCACTT  
AAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGGAGAAGTAAATGAT  
TTTTTAGATACTATTTTAAATGGTAAAACAAAAGCCGGGCGCAGGGGCTC  
ACACCTGGTATCCCAGCACTTTGGGAGGCCAAAGAGGACAGATCACTCAG  
GGTCAGAGTTCGAGACCAGACTGGCCATATGGTGCCAACCCCCCTCACTA  
AAATAAAAAAATTAGCCACGTTTGTGGCACGCACTGTAAT

>Sequence 435

GGGATGATGTGACCCTGTCCGCGGTGGCGGCCGCCGGGCAGGACGCGGG  
GGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGCTTAAAT  
TAAACCACAGGTTCCATTATGGGTCGACTTGATGGGAAAGTCATCATCCT  
GA

>Sequence 436

TGGGGGGTTGTACCACCGCGGGGCGGCCGAGGTACGCGGGGGAACACCA  
CCCAGTGTGAGCAGCCAGCCAAGCACTGTCAGGAATCCTGGGGAGGCA  
GCTACCAACTGACTGCAGATCTGGAATAATAAGTGAGGGGTAGATCTGCC  
CATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAAGAATTGTGGTAG  
GATCTTTTACTCATCCTTGCCACAATAGAATGGCCAATGCCCTTCTAAGA  
TGTTTGGTGAAAGTCTTGGAAGCACCATTTCCCCCATCACCCCTGGGAA  
GAAATGAAGTCCCTAAGGCAACCACCAGGGCTAATGGAGGCTGAAATTTT  
AACAAAACCCTATTGGGGGGGAAAAACCCAAAAGGGCGGGCATATTTTTT  
TTTCCCCAAAAGGGAGCACAAACCCAATTAAATCTTTAAACGGAGTGGG  
GGGGGCAAAATTTATGGCCCAATGGCACAACCTGGGAAAAAAAATCCTAA  
GGGCCCGGGTTATATCCCTATAACCCGTAATAACTCCAACCACCCGGTT  
AATTTTTAGAAACCTTAAAAAAGACACATTTTTTGGGGAAAAGCAGGGGG  
AACCTTTTTTTCAAACCTAATCCACCTTTGGCTTCCCTGGGCACAACAA  
TTATTGGTAAGGGGCCTTTGCAAAAATAAAGGGGAAGGACCCTCCCCGGC  
GGGCCCTA

>Sequence 437

GTTATACTAGTTATTTTATATTACTCGTAATATGCTTCGTATTCGTTTCT  
TTATCTTAGTTGTGTACGTTATACTCATGTATCAGTTTGTAATTTACTAA  
AATTGTATCTATCATATAGTTACTATTINTNNTATCTTGCTGTTGTGGT  
TGCGCGCCGATGTACCTTTTGAAGAGAAAAGAATCTTGAATTGTATAT  
ATTTATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATT  
TTGGTTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTG  
CCTGCTGAATCAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCCT  
GGCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCCCC

>Sequence 438

ATTTTCTAGTCTATAATCTTTCTGTTATATTTATATGTATTTTATCATTT  
ATGTAGTATGTATCTATATATTAATTGTTTAAAGTATGTGATTACTCTA  
TTAGTCTATTATTAATTTTGTTCGAGTGTCTGCCGCCGGGCAGGTACG  
CGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAG  
ACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCT  
GAGGAGGAGGAAGGAGGAAGGGAATTAAGTGGATCCCCTAACAACAGT  
GAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGC  
TAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGGAT  
TGCACGGAGGAGCTCTTTGACTTCTTGATGCGAGGGACCATTGCGTGGC  
CCACAAACTCTTTAACAACCTGAAATAAATGTGTGGACTTAATTCACCCC

Table 2

AGTCTTCATCATTTGGGCATCAGAATATTTCTTATGGTTTTGGATGTAC  
CTG

>Sequence 439

CTATGTACTACTCATCTCTANTCTGTATTGGACTACGTACTCGTGTTTCAT  
AAATCTAATCCATCTTCTCTGTAGTACGTACTTTGATTCTATTTGA  
GTAGTCATTTTCATGTTTATATTTTATATCATATCGTATCNTATCNCANCT  
TGTTTGTGTCAGTCCATCTGGTGGCGGCCGAGGTAATCTGTGATTTTACC  
TAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCCTCTTTGATCCCATAC  
CATGCAGGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAAAG  
AAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGG  
AGGCCGAGGTGGGCAGATTACTTGAGGTCAGGAGTTCAAAACCAACCTGG  
CCATCATGGTGAACCCCGCCCCACCAAAAATACAAAAAATTAGTGGGGC  
GTGGTGGTGTATGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTTGAACCCAAGAGGCAGAGGGTGCAGTGAGCCGAGATCGTGCCA  
CTGCACCTCAACCTGTGCGACAGAGCAAGACTCTGGGAAAAAAAAAATAAA  
CATAAAAAAGGAAGGAAGGAAGGGGAAAGAAAGTGGCCTCACAATGAT  
TTGCAACAACCTATTACAAAAAGAAATGAAAGATGGAAAGTCAAAGAAA  
GAAAGG

>Sequence 440

TGGTGTATGTGCCTGACCCGGGGCGGCCGAGGTACGCGGGATGTCTAAAT  
ATCTTGTAAGAAAGTGTTAAATAAAACAAACCCAGTCAATTAAAAATTTG  
ACTGTTATTGAGAAACTCCAATGAGGGAAATAATAAGATCTATAAAGGT  
CTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGCTC  
ACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGA  
GTCCAGGAGTTTAAGACCAGCCTGGGCAACATGGCAAAACCTGTCTCTA  
CAAAAAATTAGCCAGGTGTGGTGGGACACGCCTGTAGTCCCAGCTACTCA  
GGAGGCTGAGGCAGGAGGATAGGTTGAGCCTGGAAGATCGAGGCTGCAGT  
AAGCTGTGATCACACCACTGCACCTTAGACTGGGCAAAATAATTGTTTAA  
TGATAAATGAGGTTCTGCCCCG

>Sequence 441

CGGATGTGANNATTGATATAGCGACTCCACCGCGNGGCGGCCGAGGTAC  
ATTGTAGCTTTGAACTCAGTGTTTAAAAATTCATCTGGTTACACACTCT  
ATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAATAAGGGCCAGGTGA  
AATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACC  
TCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACC  
AGGCTGATTTGTTCTTCAGAAGTCTTCTGTCTGCCCCCGCTACTGTTT  
CTGCAGGTTAAGGCAGGACTGGAACCTCCACAGCTTGACATAGTTTT  
CAGATTCAACACTAACTTCTCCGAGTTTAAGATGTGCCTGGGCAGCATAA  
AGCTGTGCTTCTTTGTTTCTTGCTTTTAAAAATGATCTTTGCTAAATC  
CAGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTT  
CTTGAAGAGACTTGTTTTCAAGGACTGAATCATTGGCATTCTTTCAGTC  
TTATCATTTTCTTTATCATCCTCTTCCGAGCCTTCAGTTTCTTACCCTC  
TTTCATCTGGTCTTCTCTCTTGGGGCTCTTCATTAGCAGCTATCTGAA  
CTTTGGCTTCAGGTGATTTCTCAGTAGCTCCCTGGGCTACCTTGGTAATA  
ACCCCATCTCCAGCTGCCTCAAACCTTTTACAGACAGCNTAGTCTCCTT  
CTGACTGGGAACCAGCTTTGCCCTGACTTCTNCTTTAGATCCG

>Sequence 442

CGGCCATCCGCATCATATCTGCTGTGATCCAAAGNTTTTCAACGTCCTA  
ACTATGAGTACAGTGTTTGTATCGGCTTNTCGCNNCNAANANNNNAAGG  
TGTGAAGTTCGATGCACTGCACCGGGGGCGGCCGCCCGGCACGTAAT  
TTGCTGCTGAGGAATGGAATCAAAAGAACGTAGTCTCCTGGTAACCACT  
CAGATCTCTATTATTAGGCTAGATGTGGGGCGGGTGAATCCCCAGCTTC  
TTGCTCTCGACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAA  
AAGGGAAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATC  
AACCAACGTTGCTATGAAATATGCCTCACACTGTATAGCTCATTATAGGA  
CGTCAGGTTTGTGAAAAAAGTGGGCAAGACATGATTAATGAATCAGAAT

Table 2

CCTGTTTCATTGGTGACTTGGATAAAGACTTTTTAATTTTAAAAAAAAT  
ATTCATGGAATAGGGTCCT

>Sequence 443

TGCTGATAGNGTCCTCACCGCGGGGCGGCCGAGGTACATGAGAGACACTT  
TAAGCAGGCTCACAGGAATAGAGTGAGTGCGGACTCAGATTGTTTAAGCT  
ATCTCTGAACCCATTCTACTGCGTTTAACTATTTTATTGGTTTCTAACT  
ACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCACAGCGTT  
GTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGC  
ATCCGCGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGA  
AAACTCCTCCTTCTCCCATTTGTTCTATGAGGTGGGTGGGGACTCCAAA  
ACCCGTAGCTCCTGCCCTAC

>Sequence 444

TCGTTCTCATACTATTATAATTGTATTCTACTATCTTACATTATCGTATC  
GTCTTAATGATTCTAGTATCTATTGTTCTGAATATTTATTATCATAAACT  
AATATCNNNNNNNTTGTGTTTATTCTGATCGGACTCCACCGCGGTGG  
CGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTCGT  
AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTTTCTTTGTTTTGGGCTT  
ACCTTCTTGCTTAATGGAATTGTTATGGCTAAGCACATAGAAGGCCAAAA  
AAGGAGTTTTTCAAACCCAGCAAATCAAGTGCTTGGATTCTGAACTGCCA  
AAAGAAAAGTCACTTCCCTCTTAAGTAAAACGAAATGAGTTTCTTAGG  
TAAATGTATTTCATCAGCCCAGATAAAAAAAAAAACAGTTATGTGAGCGTT  
AGTCACTGCTCATTTCCAGGAAGATCAAACAAAATACCAGCCCAGCCAGA  
CTCACATGTGTGTATATATATAAAGCAAAGAGCCCCGCCCAAGCCA  
GCAGCTGGGTGAAATATCAGCTGTCCACGCCGTGGTATTCCAATTCGGGG  
AAATTACCTCCTTGGA AAAA ACTGGA AAAA ATTATTTGTTGAAAAAAACTT  
ATTTGATAAAAAGTGT

>Sequence 445

TGACGATNAGATCGGAGTCCTCACCGCGGTGGCGGCCGCCCGGGCAGGTA  
CTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAAG  
TCACTAAAGATTCATTTTTGTGAGTCCTTATGAGAAACAGCAGTATGAA  
TCTTGACGGTTTCTGCCCCGCTTAATGGCAGAGCTCTCTGACTTGGGTGT  
ATGCTACCAGGCTGGGTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGG  
TTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGA  
ATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGGT  
GAGCTATCCCATAGTTTCTCAACGCTTTTACTGCACTGTTTAGGGTC  
AGATACACATATATATACAACCTTTGGGTGAGCTCAGGAGTTTATAAGCTT  
TATGGGCTTGGTGTGTTTGAATTATAAACAGGAGTTTATAGAAGTTTATGG  
GTTTGCTTCTTTTTCTGCCAGTTCCCTTGTATTTTCCAGCCCTTAAAC  
TCCTTTTTGGGTCTGTGTTCCAAAGCTGGTCTTAGTTACCCTACTTGT  
GACCAGTTTCACAGTGTG

>Sequence 446

TGATGATGATTCCCTNATCCGGTGGCGGCCGAGGTACGCGGGGAGACACA  
ACTTCTGGGCTTAGATATTTTCAAGATATCACAACCTAACTCTTAAAAAT  
TTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCAGCACTTTGGG  
AGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAAACATTTGCTGGGC  
TTGGTGATGTGTGCTGCACTCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTAGAACCCATGAGGTGATAGGCTGCAGTGAGTCATGTTTGACCA  
CTGCAGTCCAGCTGGGTGACAGTGTGTATTAGTTTGTTCATGCTGCT  
GATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTAATTGGACTTA  
CAGTTCCACATGACTGGGGAGGCCTCAAATCACGGTGAGAGGTGAAAGG  
CACTTTTTACATTGGCAACAAGAGAAAAATGAGGAATAAGCAAAAGCAGA  
AACCCCTGATAAGCCCATCAGAATCTATGAGACTTATTCACTATCACAGA  
ATAGCC

>Sequence 447

ATTATACTTACCTCTTAGATTATTTATCTCAAGAATATATCGATTTCAT

Table 2

CTTTTATACTTANTTGTACATATTTTTTAATTATATATTCTATTTATTAT  
TATACAAACNATCTAATGCGTTGTATCTTCTCCGGTGGCGGACGAGGTAC  
GTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTT  
GCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC  
TGGTCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCC  
GTCTGATTCTAATAGAGAGCCGGGTTACCGTTTGGCTCGATATTATAAG  
ACCAAGCGAGTCTCCTCCCAATTGGAAATATGAATCATCTACAGCCTC  
TGCCCTGGTCGCATAAAATTTGTC

>Sequence 448

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTCTTCTGATGTCTTTCTAACAAATCTTTCCTG  
CCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTGTAGCTTTAGCT  
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGG  
CAGAGTCCATGTTGCCCAAACCTGGTCTGGAACCACCACACCCAGCTAATT  
TTTGTGAATTGCGGGTACCAGCACACCGGCGCGTCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCC  
CCTATCAGATGTGTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAAACTGTGGGATCCCAGAACTCCTTGTAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

>Sequence 449

GANTTGTGCCTCTCGCGCGCGGGGCGGCCGGGTACAAAAAGCAGGGGCC  
AGCCCCAGCTGTTGGCTACATGAGTATTTAGAGGAAGTAAGGTAGCAGGC  
AGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAAATCAGCTTCTGG  
AGGAATGCATGTACAGGCGGGACTTTTTTCAGAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAAACAGCCCAGGACTGCCGAGACTCTGGC  
CGCCCGAAGGAGCCTGCTTTGGTACCTGCCCGGGCGGCCGTCGATCTCCT  
TGTGTTCAAGCAACTTCTTGGGTAGTCTCTGAAGCGCCTTATCTCTAGGG  
TCCGCCATGATGAGAACCCCGCGTACCTGCCCCG

>Sequence 450

TGGGATTTGCCCCCTCCGGGGGCGGCCGAGGTACTCCCTACGGCACTAGTC  
TACAGGGGGAAGGACGCTCTGTGCTGGCAGCGGTGGCTCACATGGCCTGT  
CTGCACTGTAACCACAGGCTGGGATGTAGCCAGGACTTGGTCTCCTTCCC  
GCGTCAAGAGATAGAAAGACCAGTCCTTGTGAAAGACAAGTCTGAATGCT  
CCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCTG  
GATGGATGAAACCCAGACACATAGCAA

>Sequence 451

TGGCACCGTGCCTCTCCGTGGTCTGAGCGGCCGCCCGGCAGGACAAATGAG  
TTTAGAAATGTTGTATAAGGCTGATCTGGACCCAACTAAAACAACGTTA  
ATCCTCTTCAAATCTAATTTAATATAGGGAATAAGATTATTGAAAAAAA  
TTTTTTTCTGATTTTCTTTTCTGAAAGTTTTTTGTAGAAACCATGG  
TAAAAAGGGAAAAGAAACCTTTGACTGGCGGGGCGAGGGGAATACAAAA  
AAAAATCCCTTGATTTTTAAAAATATACTTGAATATCAAACCTCAGAAAGA  
GTTATTTTGTGAAAGAGGCAAAATTGGTCTTGAGCTGCTTCAGTCTATG  
TCTGAAGGTTTTACTGAAATTATGGTCCAGTTTTAGGAGAAAAATTCACA  
GAAAAGTCAGATTGTAGATTTTGAGAAGGAACTCTGAGGTGGTGATTTT  
CTCCAAGGTCATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCTTCC  
ACAATCCCAATTGAATGAGCGCCATTTTGGCATCTTTCTGAAAGAATTT  
AAAAGCCTTCACTGAACATCCAGCTTCTATGAAAAGGTTCTTCAGATCAT  
CCACTGTAACAGAAGGGGGAATGTTGGAAAGATCAGAGTGGCT

>Sequence 452

TGGTTATGGACCTCACCGCGTGGCGGCCGCTAATGTTAGAAGTTAAGTTG  
GAACCTATATTGTAGAGGAACAAAAGCCAATCAGTGTCTTTTGTCTTT  
TTTTACATAAACTTTTACTACAAAAATTAATATATGGATTTTGAATTTCC

Table 2

AGTCAAACCAAATTGTAAAACCTGTTTCATTTGGTTCTATATTATGTATAC  
ATAATTTATCTATTATATATTTACATTAAAAATATATGCATATATAATGGA  
TTTAATTTCTTTTGGCACCCCATATCTAGAAGTCTCTTCATAAAATTAA  
TAAATAATCTAGGGCCAGCATTATGTTTGCTAGACCTGGATTGGCTCAA  
TACTTAAAGTTAAAAGTTTCTGTCTTTTTTCTTGGACTTGAAACTGCCTA  
GAGCGTCAGTCTCTCTGTTATTTTTTCTATTTTCTTTTTCCCCCATCAG  
TCTTTTAGCCACTTGAAGCCAAAATTCTTAGTTTCTGTCTAGTCGATAA  
GAGTAAAAGGGGAAGGAGGAAAAGGGTCCAGTGCCACTGGACAGTCACCT  
CTCTCTGGGAAGGACCCATTACAAGACAATGAGTCCCTCTACTTTTTTAT  
ATTTCTATTTACATAAAATCTTTA

>Sequence 453

CTTTATCCCTTATATACATAAATATTATTATTGTTAACACAACCTGTTATA  
TATAACATTATAATATAGTATACTCTATTTTGAGCACAAGATGATCTCTC  
ATCCANNNAAGGGTGTGTTAGATTCCATTCCCCGCGGCGGC

>Sequence 454

ACCACGCCTCCGCCACGTGTTGTCATTATATCTCCTGATCGCGATCTACC  
CTCTATCTCATCGTATCGACATCGGGCAGCATTCTATAGGAGTTGGTATCT  
ATTATACTANTANATANAAGGGCCGGCGTCACTACTATAGCCGAAGG  
NGGACGNCCGGCCAGGNACGCGGGGACCTTTCACGGGCGGGGGGAGCTGA  
GGCTCCTGCCGACATCTCTGATCCTTGACCCCTGGCAGGAAGCTGGTCGC  
GGGCACTATAACGGGAGGCCTCCACATATCCAGAAAAGAAACCACTCTG  
CAGTGCCAGACTGGAAGAAGTAACGGTCACTCTGAAAACAGGGGGGAGA  
GCTGCCTCCCTTTGAACCTCTCCAGGACCAACTCTAACCCAGGGAGGGG  
AACTTGGTCCGTGCAAGCGGTGGCTTGGAGACAGAATCATCTAATGGAAA  
AGATACTAGTAAGGCGCTGGGGATACATCAGAGGAGAGGGATACTCACG  
CGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGCCGAGGTAGAGCTG  
CAATGTGGGAATGGTACCT

>Sequence 455

CCACCCCTTATACCAGTTTACATAATGTTGTTATTTTGGTTTTCTCCTA  
CATAAGTAGATCTTCTCATATTCTTCTCAATCTCTATATTCTACCTGTAA  
TATCTAAATCNTTTCGTTAGCTGGTGGCGCACCCGCGGTGGCGGCCGC  
CCGGGCAGGTACGCGGGGAGGATCTCTGTCTTTTGTTCCTCACCTGTCT  
GCCTGTCTCCTCTCCTTTCTGCCTGGGGGGACTGTCCAGAAGACATCAT  
CGTCCAGTTCTCTGCATTTGAACAGCTGATCCCCCACCCCTCAATACCG  
TTTAGAGCAGAAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAACT  
ATTTTCGGCTTCATGGGCCACACAGCCTCATTGTAGCTTCTCAAATCTGC  
TGTTGTAGCAAGAAAGAAGCCATATACCCTGTGTAAACAAATGAATATGG  
CTGTGTGCCAATAAACTATTACAAACATAAAGAGTGGGCTGGATATGA  
CTCAGATACTGTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCCAAAC  
TCTATAGCCTCCAGCCTGGGAAACAGAGCGGAGACTTCGTCTTAAAAAAA  
TTAATAAATATATTAATACATATGAAAAAATATATTGAGCTGGGCGTT  
GTGGTCTACTCTTGCAATCCAACACTTTGGAGGCTTAGAAGGCAATCACT  
TTAGTTAGGGGACAGAACAGCCTGGTCACATGGTGAAACC

>Sequence 456

AATCCTATTCTCTCATTTGCTGGTTCATAATATAATATTATATATATGTCT  
CTCTCATTCATTGTAATTTATATTATAGTAGTATGTAATTGCTGGTAATA  
TCTACATAAATNTTTCNNTNTAATAAGTGCACTTTGGCACTTTGGAAGCGC  
TTCTCCGGGAGGCGGCCGAGGTACAACATGACATTTTAAACCAATCCAAT  
CTAAAAATGTGCCAGAATCCACCTGTGGCCCGAATCGTGTTTGGTTCCTC  
TTTCTACTCCACTGCAGATGACCAAACCTGTCCCGCTGCCACTTTCTCTCA  
CTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTCCACTAAAAATGCC  
CCAGGAGAATAGGCACCGGCTGGCTTGCCAAAGGGTTTGGGTTTTATTGC  
TTTCTGTTTTTTCTTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTG  
GACAGGTGTTATTTAAACATTCTATTGTAAATGAATGTGTTGTTTGGTTC  
TACTGCATTGTGGAGCATGCGGGGGAAGAGAAGTACCAGGTAATGAAA  
TGGAGCCCTTTCTGGAACCTAACAGTCCTTGATGTTGTGTGACTAAAGT

Table 2

AAAGATGATAAACCCCATTTGCTGGGGGTGGTACTTTACACTTGGGTTG  
GATTGGGAAAGCTTTCCATACCCCTTGGCCATTCCCTTTTTCTTTTTTT  
CAACCCCATTTTTTAGGAAGGGATTGTTAACAAAACCTTTCTTTTAA  
CCTTTTTTT

>Sequence 457

TGCCGTTTGAGTCGACTCAGGGGGCGGACGTATATTACTGTGCGAGAGGT  
AAAGGATATAGTGGCTACGATTACGGCCTCTCT

>Sequence 458

GGAGAGTTGANNCANNTTTGGGAAGCGCTCCCCGCGGTGGCGGCCGCCCCG  
GGCAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACTAATTA  
CTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGC  
AAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTT  
GTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGA  
TGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAG  
CTGACCTTCAAACCCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGT  
AAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAATTCTGA  
ACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATC  
TGGAAACCGATTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCC  
AGCCCCAAGCTGCAGCCCATTCACAGCACCCGAAGAACTTCCCCAGATGG  
TGGGTCTGGAAGGACATTTTGAAGATGTTGCCAAGGGGAGAAGATCAGCA  
AAGAAGAGTACAGCCCTAGAGGCCAAACCCTCTTTCAATCTCTTGATN

>Sequence 459

GGGGATAGTCNGAATCACGTGGCGGCCGCCCGGGCAGGTACGCGGGTAGT  
GAGCTGGTTAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGC  
CACTCAACTGACATACCATGGATTATGTGAACCTCAACGGTTCAGG  
AAGGAGAACTTTGTGTGTTCTTTCCGAATAATCATTTTAGCACCATGACC  
AAATACAAGGGTCAACTGTATTTGTTGGTAACGGACCAGGGGTTTCTTAC  
TGAAGAGAAAGTTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAA  
ATTTCTGTGACTCAGAATTTTATCTTCGACCTCCTTCAGATCCTGAACT  
GTATACAAAGGACAACAAGATCAGATAGATCAGGATTATCTTATGGCATT  
ATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGGAACAAATCC  
CGGAAGGAATCAGTGATTTGGAAGTAGCAAGAACTCCAAGAGGAAGAG  
GACAGACCGGCTTCTAATACTATCAGGAACAGGAACAAGCAGCAGCTGCT  
GCTGCTGCTGCTTCTACACAAGCTCAGCAGGGCCAGCCAGCACAAAGCCTC  
TTCATCAAGTGGAG

>Sequence 460

TAGACTTCAGGGAAACAACACGTCCTGAAAGAAACATGATCCCCCTCAAG  
CCACAAAGGATTTTCTCATCAAGTGTTTTACCTCTGCATTAGATTGGA  
CACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAGTCTC  
TTCTCTAGTTACTAATTTTAAATTTAAAAATACAATTAAGTATCTAGC  
TGATAAAAGTCAAGACAGAAATAAGCTAAGTTCTCTCTTCTTTAGGGA  
ACGCTGGTGGCAATTCACCATATAAACTGGATGGAAGAATTCTCCAGGG  
ACAT

>Sequence 461

CTCTTACCCTCGTCTCACTGTACTGATAAACATTTATCTTGCTCACATGT  
ATATTTTATACTCTATCTATTGTCTGTAACCTCTCACAATGCACTGAAGA  
TTATTGTAGTAATAGTGATTATGTTTCTCTGTATAATTGGGGGTGATT  
GTATCAGTTGCCGTCGTCCGGCAGGAACGCGGGGGCTGTCTACCTGGAGT  
TCTAGCAAGTCGGCCAGGATGTCTAAGGCTGAGTTTGAGAAAGCTGCAGA  
GGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCA  
TCTATGGCCACTACAAACAAGCAACTGTGGGCGACATAAAAAACAGGAACG  
GCCCCGGATGTTGGACTTCACGGGCAAGGCCAAGTTGGATGCCTGGAATG  
AGCTGAAAGGGACTTCCAAGGAAAGATGCCATGAAAGCTTACATCAACAA  
AGTAGAAGAGCTAAAGAAAAAATACGGGATATGAGAGACTGGATTTGGTT  
ACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTTTTTCTA  
ATACCGGGGATGGTGGGAATTCCGGGAAAATAACCAGTTAAACCAGCTACT

Table 2

CAAGGCTGCTTACCATACGGGTCTAACAGATTAGGGGCTAAAAACGATTA  
CTGACTTTCCTTGTGTAGTTTTTATCTGAAATCAATAAAAGGGGATTGGT  
ACCATAAAATTCTTTCTTATTCTTGTCCCTTGCCCGTTAA

>Sequence 462

GAGGTTAATCNGATGCCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATA  
TTGTTCTGATTTGCCTGATGTGTGGACGGATCACCAAGCGAGTGACACG  
AGAGCTCAAGGACAGGCTACAATACAGGTCAGAGACAATGGCTTATAAAG  
GTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACCTTTCTGC  
ACACTCCAGACAACTTCCCAGACAAGCTCCTTTGTGCCTCTACGTGGAG  
AGGGCGTGGAAAGTTATCACATTAAGATGGAGGATTTAAAAAATAAAA  
AAAAAAAAAAAAAAAAAAGTACCTGCCCG

>Sequence 463

AATTACTCTACAGTAAGGACTGTAAGTACTAGAAATTATATGTATGTACA  
GATACTACACTATNGATTTATACTAACTTTATATTAATCAATTTACGAAT  
TAGATTATGACATACTTATGGAGCTAATTTATTCCTTCATTACTAGTTTA  
GTTGGTTTGATTTCGAGTCNTCTATCGCGGTGGC

>Sequence 464

TGCACGATGATTCTGAAGCCCTCACCGCGGTGGCGGCCGCCGGGCAGGTA  
CTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTAAACCGCTGCCACCACCATGAAAGAGGGGCCACCAC  
ATTTTTATTGCATACTCAGGGGAATAACTTATTATACAATGAACACTCCT  
CCATTAGGAGACCATGCCCACCTACAGAATGCAGCCGTAAATGCGGTAAA  
TCTATTTACAGAGGTTGGGGTGCAAGATGAGAGAAGTATCACCCCCAGGA  
ATTTGAAGTGAGAATGATCTACAAATTCTCCTGACAAGGAGCAACCGGGC  
TTGTGCTAGTGAGGGCTGAAAAAATTCCTGGCAAAACGTAGGGGGGAGATT  
AAATCTCGGAATTGACAGCAAGTTTGGGGACAGTGCAAGAAGAGAGGGGT  
GACCTGTGAAATGGGGCTGGGGAACTTCTTAGGCCCAAGGGGGGGCAGC  
ACTTGAGAGATGAGTTAAATTTAGGGGTGATCTTAACCCTTTCCACCCC  
AACCAAAAAGGTTTGGGAACCGGGGGTCCCACAAAGTTGGTTTCCAAGGA  
AAATAAGG

>Sequence 465

TGAGGTATTAATCCAAACCGNGTGGCGGCCGAACGCAGAGAAGGTAGAAG  
ATAGCACCATGCCGATTCTGTCGAACTGTGAATTCTACCCGGGAACTCCT  
CCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACAT  
AAGTTGAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAACTC  
CACCTGCTACTTCGAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAAT  
GAAGAGAAGGAAGAAAATAAG

>Sequence 466

TGGGCTGATGGCTTACCGCGGGGCGGCCGAGGTACGCGGGGAGGTCCGT  
GCGCGCTTCTCCCAGGTGGAACGGGCGGCAGTCAAGCGCCGGCGTTCTC  
TGCCGTCACCCTTTCCTTGC

>Sequence 467

GGGGTGATGACTCATGACTATCCCGCGGTGGCGGCCGCCGGGCAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCTCCATCACCC  
ATGCTAGAGTGCAAGTGAGTGATCTCGGCTCACTGCAACTTCCGCCTTCT  
GGGTTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAG  
GCACATGCCACCACGCCCACTAATTTTGTATTTTAAATAGAGACAGGGT  
TTGACCATGTTAGCCAGGCTGGTCTTGAACCTCCATCAGGTGATCTGCCC  
TCCTCAGCCTCCCAAGTGCTGAGATTACAGGCATGAGCCACCGCGCCTGG  
CTGATTGTGTTCTTCTCACAGATTTTGTCTGTTTTGTTTTCTGTA  
ACACTCAGCTGGAATGCTTTCCAGCTTCCCTTGCAAGTAAAGTACAAG  
TAGCGCTGTGACTGGGTCTGCCCCGTAGAAGGTAAGCAGAAGTGATGTG  
TATCACTTCTATGTGTGGCCTCCCAAAACCTCTAAAGGTTATGTTCCCT  
CTTTTTCCCATCTATGGCCTGNAAGTGAAATATTATGGAGCCTTTTGCT  
GAGACACCCCGGTACCTCGGCCGCTCTAAACTA

>Sequence 468



Table 2

TCGGTGTGCTGTGCTCATCTGTCTTCCAAAGGAGGAACAGATCGGCAAGT  
GCATCTGACGCGTGGCCGACAAATGCTGTGGAAGAAAGAAATAAAAACCC  
TGAAACATGAGCGAGAGTGATCGAAACGTGTGGAAATGCCTTCTTAAAGT  
TTATAAAAGTAAATCAAATTACATTTTTTTTTTCAAAAAAATAATTTAA  
AACTAAATGTACCTTAA

>Sequence 469

GCGATTGGAGCTCCACGCGGTGGCGGTGCGAAGGAGAATGGTATCACTCA  
GGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACC  
CTGCCAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACT  
GCGGCCAACTTGGTAGTGGAACCTGGGCAGGATGGAGTACCTTCAGGATT  
GGCCTGTTATCTTCTTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGT  
GGACATTTCAACACCATCAAGTGCATTTAGGTGACATGTTTAAGTTAACT  
TGACTTCCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCGGTC  
ACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATATTCAAAATGCCAT  
GTTACCATCTAAACCC

>Sequence 470

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTATTGTCTACCTC  
TCTGGACTTGCTCCAGCATCCGGACCAAACCATCAGTGCCACAGCCAC  
GACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCC  
CAGACGGTTTCCGTCTGTCTTGACAGCTGATGAAGGGGTCTTCGACAAT  
TTTGTCTCAAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAAAT  
AACCTACTTGCCCCGAACGTACCTGCCCC

>Sequence 471

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTTTTTTTTTTTTTT  
TGGAAGACACAAAGATTGAGCCACAGCCTACAGGGAGAGAGGATTCT  
GAGGATGGTGGTGCATGTGAGTCCACGCAGGCCTCCTGGGCATAGGATG  
GAGCAATTCTATCTCACCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA  
CTGGAGTTTCTTTCATTAGGATTCCATCCAGGATATCCAGAGGACAAGA  
GGCTGGCCAACTGACAGGATTAGCCTATGCTCCCGTGTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGGTACCTGCCCCG

>Sequence 472

ACTCACCTAACTTATATTCCTAGTTTATTTAAGTTATATTGTTACATATT  
AACAATTACTGATATCTGCTGACTAAATATCTACTACACTTCTCATACAC  
TTCAACACTCCTATATATTATATTGTATCTAGTGTATATTTTATNNAANN  
TCAGTTNGGTATGCTGATCGCGTTGCGGGCGNCCGGGCAGGTAATGTTGGG  
TGATAGTGTACTATTACAGTTAATTCGTCTTTGTGTGCGCTGATAAATG  
CAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGCAACAACCTATCG  
GTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGATAGT  
CGTCTGTGTTTTTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTCGTG  
GCGGGGTGGTTGGCCAAGTGCTGTCTAATAATTTTCAGGAGAGGATACTTT  
GTTGCTGCTGCAGGATCAGCCATGGTAGATTATGGTTTTTGAGAACCAGA  
TGGGGCACACAATTTCTAGTGTGCCCATTTAACAGGGTCTTCAAAGTAC  
CATG

>Sequence 473

TTTATATAACTTATTCGTTCAATCTATTTATTATATCTCTCTTATATACT  
CATGTCTACTTTAATATCATACTTGTATAATTATTCATACATATTATA  
ACAANACCGATGCATGTTTCATNTANTTANGCAGCACACCACCGCGGTGG  
CGGACGAGGTACAAAATAATTATAATGTATTAACCTACTGCTGTCTT  
TTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTATAAGGTGGGTT  
ACCTTTTAGTTGCTTGGATGACAGGGAATTAGCCTACCCCATTTTGGTCT  
GGAACAGAAGACTTTCAAATTTAATATGGCCCAAGTGTCTTCTACTTAA  
GTGCAAGATCATGCTATGTCAGTTACCCAAGCTGGAATACCGTGACACGA  
TCGTGGCTCGCTACAGCCTCCATGTCCCAGGCTCGAGCAGTTCTCCACC  
TCAACCTTCCGAGTAGCCGGAACACAGAACACAGTCTTCTCATTTTGA  
AAAGACATGCTTTTTCTTAAAGCAACAAAGGTGGTAGAGGAAATTTCTTA  
AACTTTCTCAACGAGTCATGTAACGTTACACTGGCCTTCATAAAGCACCG



Table 2

TTTAAGAAAGGCCTTTTTTTCATCTTTTATACTATAATTCTGTTCTTGGCC  
TGGGGGGCCTTTTAAACTAGTGGATCCCCCGGGTTGTGGGAATCGTT  
TTCAGCTTTATTTTACCTTCCACCTTAAGGGGGTGCCCGGCCCACTTT  
GTTCCCTT

>Sequence 474

TGCAGATGGAGCNTNTACCGGGGGCGGCCGCCCGGGCAGGTACGCGGGGG  
AGCTGAGCCGGTGGGTGAGCGGCGGCCACGGCATCCTGTGCTGTGGGGGC  
TACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTCTTATGTGCC  
TGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGAC  
CGTGTACTTCTAAAAATTGCACTTTATGTTTTGTAGGCTTGGAGCTTCTTG  
ATTATGGGTTTTTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCA  
TAAACATTATGGATGCTTTTTCTGTTTGTACCT

>Sequence 475

GTACGATTGAGCCNTTTTGGAAAGCCGCTCTCCCGCGGTGGCGACAGGGTT  
ACATTGGTAAGGGTGACAGTTAGAAGGGGAAGTCCTTTTAGTGAAATAGA  
TGAGAGGTTTTAGA

>Sequence 476

TCTCTCTCATCTCCCACCTTTTCACTCTATTGTGACTAACACTCTTTTCTT  
TCATCTCTTAACGATCTCGTTTACTCTATTCTATATATATGATTATTCAT  
TCATCTTTNATCNCTTGGAGTGGANCTTTGGGAGGCCNTNCCGCGNGGC  
TACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTCACGAG  
GCCACCACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCA  
CCTGGATTCCCTTTTCCAGTTTCTTATGTCCACAAGTCACTGTGCACAGA  
TAAGAGTGTTCTGTTCTCAAACTCACAGGGCTCAGGGTCAGCGTGGAATT  
GGTCCCCTTCACTCTCACCTTCCCGCTCAGAGGGCTGTCTATCTGGGTT  
CTCCAGGAGAAAGATGGGGATTACAGCCCATGACACCTACATGTCAACA  
TGACTGAGTCTCCAATCTGAGCAGCAATCCGGGGTCCAGGGGAGATCTCA  
ACAGTAAATGGTTTCTCTTGGACAAATTAATTCCACCTCTTTTCTGGTTT  
TCCCCAATCAAATTAAACTTCTTCACACCACATTAATTCAGAAATCTT  
CCATCCTTATAACAATTAAGTGGAGAGTTGGATTTCCAGAAAGGTGCTT  
GAAATTCCTATAATCTAAATTTCTTACTCCAAAAAATTTTGGGAGCTGGAG  
ACCCTTGCTTGGACCAGGCAATGGTACGGAGCCCCCTTTTGGAAAGTTGGG  
GGAGGGATCACAGAAATAACN

>Sequence 477

TCTCTTCTCTCGTTTTTCTTTCTGCTTATCTTTAGTCTTCTTCTTTCCA  
CTTGCCCTTCTTTTTTTTTTTTTTTTTTTGTTTTTAGTTATACATTATTNTN  
NTTNTTGTCTTGTACGACTCCCCGCGGCGGCGGCCCGCCCGGGCAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAAATATTTATTAATAATGAT  
TTTTTTAAGTTTGAACCTTATTGGAAGGAGTCCCTCTAATTCACACTTTC  
ATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTT  
TTTAAAAACCACATAGTAGCACAGTGAAAGAAATGCAATTCTCCAGGGTC  
TTAGAGAATTCAAAGGGGCATCTTAGGTGGTCTAAGAAACCAATTACAGT  
CTCATGGTTTTCTTTTGGTTCAAGATTAGAAGAGTCAGGTTACCACTAC  
CTGTTTTTAGAGGTAGAATATGAACTTTCTACTAGTCCACAGTTTACTGG  
TCAGGTGGCCCCAACAGGCTTTTATCTTAGCCCCATCTGCCTTTAGGGTG  
GCCAGATGATCTCTATGTCCAAGCAGCAAGGCTTTCTGCTGATCTCTAC  
TTTAGATCCATGAACCGGTTTTTC

>Sequence 478

GTACGATTANCCNAATATGAGCCTCCTACCGCGGTGGCGGCCGAGGTACC  
TGCATCAGGGATAAGAACCCATTCCCCTCCCTTGTTCGGGTGTGCTCTCG  
CCATTGCACCATCCATGAGACGCACTCTTGATAGAAAGTAAAATTGCCTT  
GCTGAGAAAAAAGTACCTGCCCCG

>Sequence 479

TGCCGATGATCGGAAGCCTNACCGCGGTGGCGGCCGAGGTACGCGGGGGG  
TGTGGCCTGCATCTCAGCTGGCCGCCATCAGTGTAATAAGAGCTTAAAGT  
CATGGTTTGGCTGCATAAAAAATTTCTAACTTGGGTTGAATATTTGTAGC

Table 2

GAAGTATCTGTTTTTCATTTTTTTTCACGTTATAAATAAAAAATACTATGCTG  
 GCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAT  
 GTGGGTGGATCATGAGGTCAGGAGTTCAAGACCAGCCTAGCCAAGATGGT  
 GAAACCCCGTCTCTAGTAAAGATAAACAATAAATTAGCTGGGCTTGATGG  
 CATGCGCTGTAATCCCAGCTACTCGGGAGGGTGAGGCAGGAGAATCGCT  
 TAAACCCAGGCGGGAGAAGGTTGTAGTGAGCCAAGAATGGGCCTATTGTA  
 CTTTCAGCTTATCAATAGAAGGGGAGACTGGCACCCCTTTAAATTACCTTT  
 CAATAAATTGGTCCTTGCCCGGGCGGGCGCTTTTAAACTAAGGGAACCC  
 CCCC GGCTGTAAGGAATTCGATATTAAAGGCTATTCAAATACCCGCGGCC  
 TTCGGGGGGGGCCCGGGTCCCAATTTTGGTTTCTTTAGGGGGGGATATC  
 CGCCCCGTGCG

>Sequence 480

TGATGAGTCAGCTCACCGCGGTGGCGGCCGCGCCGGGCAGGTACAGATGCA  
 AACGGAGGTGTAGACTGTGCAGCTGCCAAAGTGGTGACAAGCAATCCAGA  
 GGACCATGAAAGGATCTTAATGCAAGTCATGAACTTGAATGTGCCGATGA  
 GGCCTGGCATTCTTGTCCAGAGACAGAGTAAGGAAGTGTGGCCACACCC  
 TTAGAAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAA  
 AACGTACCTG

>Sequence 481

CCTCCACCTTCTTTTTTTTCATTGTTCAATTTCTCTATACCCGACCTCTTAT  
 GTTTTTTATCTTTTCTATTATACCTCATTTAATAATATTGTTCTTCTTTT  
 TAAGTNNNNNNNANNAATTATTTGTTTCGATTCTCCGACGCGAAAATGTGT  
 AATGTAGAAGGCGAAGCCTCTATGTGTTCAATAACCCAAATTTGTTGATG  
 TTTTGTGGCCAAGGTGAGGGCTGCAAGTGTCTTCTAAGGGTTGAAACATC  
 AGAATAAAGGTATGGTGGCAAGTCCTCTCTGCTAGGCTGGCTGGCAAG  
 GCCCTATGTCTTGACCTAGGTGGTAGTTACAAGGGTATTTATTTGCCTTA  
 TAATAATTCATAAACTATGTATTTGAGTAGATTTTATGTGTGTGCTTT  
 AATTTACAAAAAAAAAAAAAAAAAAAAAAGGTGCCTT

>Sequence 482

CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAA  
 TTTTGAGCTAGTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGT  
 GTAGCCAGAATTCCGCAAAACTTCCATGCCTAAGCGAACTGTTGAGAGTA  
 CGTTTCGATTTCTGACTGTGTTAGCCTGGAAGTGCTTGTCCCAACCTTGT  
 TTCTGAGCATGAACGCCCCGAAGCCAACATGTTAGTTGAAGCATCAGGGC  
 GATTAGCAGCATGATATCAAAACGCTCTGAGCTGCTCGTTCGGCTATGGC  
 GTAGGCCTAGTCCGTAGGCAGGACTTTTCAAGTCTCGGAAGGTTTCTTCA  
 ATCTGCATTTCGTTTCAATAGATATTAACAAGTTGTTGGGTGTTTCAAT  
 TTAACAG

>Sequence 483

TCTTATCTTCATTTCCTTAGTCTAGAAATTTATTTTGATCTGAGTTCACTA  
 ACTCTAACTTATTCTGTTTCTTCAACCATGACAACCTTTGGCGTTGGTTAT  
 AAAATNATATATTTTTTCCTTTTNCNNNATNATANACAGGGNNGTTGCTG  
 ACATTTTAGAAGCGCTCCACCGCGGTGGCGGCCGAGGTACTCTTCAAAAT  
 TGTCAAGGTCATGAAAGACAGCAAAAAGTGAAGAATTCTTACAACTAGA  
 GGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACGGTGGCTCA  
 TGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATC  
 ATCTTANGTTGGGAGTTGGAGACGAGCTGACCAACGTGGAGAAACCCCA  
 TCCCTACTAAAAATACAGAATTAGCTGGGTGTGGTGCATGCCTATAA  
 TCCCAGCTACTTGGAAAGGCTCGGCAGGAGAATCACTTGAACCCGGGAGG  
 CATAGGTTGTGGTGAGCCAAAATTGCGCCATTGCACTCCAGCCTGGGCAA  
 CAAGAGCGAAATTCTGTCTCAAACNATAAATAACTAAAAAAAAAAGTACCT  
 GCCCGGA

>Sequence 484

GGAGATGTGAACAATGTGTCAATTGCTCTCAAGAGAAGGATGTGGATGGCC  
 TGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCAGCCCGGGTCATTAC  
 GTAGTCACCTCAGAGATGGACATCGAGCGGCCGCCCGGGCAGGTACACAA

Table 2

GCTTTATTGGGCAACAGCAACGAGCCACGCTGGCAAACAATGAAAGTAGA  
GTCGCTCAGAAACACGAAAGATCATATGTGTGTCATCAGCATCGAGAA  
TTTAAATCATCTGGAAGTTCCTGCTAAATTAAAGCATACTGTGCCAGAGC  
TCCCCTCTAATCAAAAAACGCTGTCTGGTGAATTTGCAATGAGGATT  
ACAGAGAGAGAGATCAACCAGTGAGGAAATCACAGACTCTTACATGAGTT  
TACAGTTAACCCCACTGCACAAAATAATAAATTAGCCATAATTTGGTTTT  
TTTTGAAAAACCATGCCCCCACCTGACCCACAACACAACAGGTAAGTGG  
CATGCCAGTTTATTAACAGATGGGCCTAAACATGCTGGGGCGGAGAGA  
CAGATTACGGGTAATGCGCTTTGCCCGAGAA

>Sequence 485

ACATTCCTCTATTATACCGTATTGTCTTATCTAGTTATTTATACCCCTCC  
TCACTTTCAACTATCTCCGGTATCTCTGTATATACGTCAACTTACTAAAA  
CATATAACNNNAATACTCTGTNTTTTTTTCGCACTCCCGGGTGGCGGCC  
GAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGAGGATACTTTTCATTT  
TTATTTTATATCGTGAGGTATTGTTGGATTGTTACAATGAACTTGCATT  
TCTTTTGTAATGAAGAAAATAACAGAGGAAATAACAACAATAAACCT  
TTGGCCTGGATTATCATCGGCTGGAAATTCATGTTGGATGCAAGTTTTTA  
TTGATAACAAGATTATTTTTTGGTTTATATGCAAAAAATGTTTCATTGAATG  
CCTCCTATTTGGCTGGCACTGCCTAGGCACTTTTACAGGTATTTTCATCCT  
AATCCTCACAACAGCCCTATGAGGTAATCATTGGTCCCAGTTTACAGAAG  
CCTTGGGTGGGAGATTATTGCTTGATATACTTCTATTTGCCACACATTTT  
TGTTGGCAAGACGTTTCGTATCGGCTGGTGATTCACTGGTCAAGAGCTCTC  
ATTGGCCAGGAGTTCCTATTTGTTGCTGTAAGATTCAAATAATCAAAATA  
CTAGAATTTTTCCCCACAAGAATGATGGGACCAGTGGCATAAGAGTAAAG  
GGAAGGAGAGTCAGTGGGTCTCTCCCTTGAAGCACCCATTGAGTTGCATG  
G

>Sequence 486

TCACACCTATCTTCTCTTCTCATTCTCCCATATTATTAATACGCTTATT  
TTCGTTCCCTCATCGTTCTTATAAATCGCTGTACTACTATACACTTACTA  
TAAGATGAAAACTTTTAGCNNNNNANANNNATGGGTCCTGTGCGCCCTCA  
CGGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGTGTGGATTGAACAGAAA  
ATTGAAAATCATAGTCAAAGGGCTTCCCTTGGTTTCGCCACTCATTATTT  
GTAACCTTGACTGGGGTGTCTTCTGCTTAAAAATTTCAATTCTCGTGGTAA  
CAACGCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGCCATTGG  
GGAGGCAGATGCGGGTGTGGAGGTGTGGGCTGAAGGTAGTGAAGTGTGTTGA  
TTTTAAAAAGTGTGACTGTGACTGTGATCTGTTGCTTTTCTCAATGATTC  
AGGGATACAAATGGGCTTCTCTCATTCAATTAAGAAAACGCGACATCTT  
TCTAAGATTCTCTGTGGGAAAATGACTGTCAATAAAATGCGGGTTTCTGG  
GCCAAAAATTATAAATTTATGGAATATATAATACTAATAGAATAATGTTC  
CT

>Sequence 487

TCCCTCTCTATTCTTTTTCTTTATTTTCTCTATTAATCTAACCTTATT  
CTTAATATTTTTTTAATTATCTTACATCATTCGTAATTGATTCTGAAGT  
TTATANAAAGANATTTTGTATGACACCTCCTAAGCTGGCGGCCGAGGTAC  
TTGTTATTTGTTTCTATTACTGTTTGAAGTCTCTCCCAAGGTTTCAGTC  
CTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCTAGCTTAGAGGCTC  
CCTCAATTCCCCCTGGCCACCCCACTCTGTGCCTGACCTTGAGGA  
GTCTGTGTGCAATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATAT  
TGGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCTGCTT  
AAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGATTTTG  
TATTACAGGGGTTTTTTGTGTACCTGCCCG

>Sequence 488

GATCGTCATTGTTATTACTTGATTCTTATTTTATTTATGTTTTGTTTTA  
CTCTTTCTTTTAAATTTCTGATGTTATTTTTTTTTTTGTATCGTTTATT  
TTTNANNNATNNTTGGGGGCTATAGGCNCTTCTCCCCGCGGGGGCGGCCG  
AGGGACTTNGTTTTTTTTTGTTTTTTTTTTGGTGCTTTATTTTCAATATT

Table 2

GTCTTATTAATATTTTTCTTATTTTATAATGCAATTACAACGGTTTAGGA  
GACAAAACAATATAAAACAAACGAATGTTAAATAGTTTTTTTTTAAAAAATA  
GCTTGTTGCTTGCAAGAAAGTCCATATAATCTTATTCCCCCCTAAATATA  
ATTTTATACTTTGCACTAAACCAAAATAGCTTATGGAAAATTAGTATTAA  
ATAGCTAAACACAGAAAACCTACAGCTATAAATAACATAAAATACAGTTT  
AACTTTAATGTGATGCTTAAACAAAGCAAATATGATGCAATTTGAATCA  
ACTTCATTAATTGGACCAGTCCAGTGGGGCACAATTTTGATTAGCCCTAA  
CCCCTCATTGGTGGCCAGTGAAACCTCCACCCAGCAAGGGCCTTTCTGG  
TCTTGGGCTATGTCCAATTCCATTCCAGAAAGCCACAGTTTTTACATGTT  
CTTGACTTTTTTACTGAGAGGACGCCAAN

>Sequence 489

CATTCCTTTCTTCTTGCAATTTATATGTTAGTTTATATATTTTATTATCT  
ATGTTTAACTATTTATTTTATTATGATTTTATTATTTTCTCTATCATAT  
TTATTCTATTNNCTGTTTGTCTTCTGGATATCATTCCCGTGGTGGCGGCCG  
ACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCC  
GTGAAAGCTGGCTGCCCCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATC  
TTCACATTCTTGGAACCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGT  
AAATGAGAGCCTTTTCGAAAACCTTTCTGCCCTCAAGTATTTACCATAAAT  
CTCTTTAAAGTGACATGTTTCAGAATCAGGGCTCAGAGTTTGAAGTAAAGA  
GTCATTTCTTAGTTCAGCTTTCAATTTGTATAACTTTAGCCTCTGCCCTT  
TTCAAAGATTTTTGGAGAGTCAATTTTTCTTTTGTTCATACTTCTTTTTC  
AGAGGGCATGTTGGCTTCAATGTTGGGCACCACCATTCATGAAAACCTT  
GGAGATTATTCTTACCAGCTTCTGGCTGGCGATCCAAGTATCTGCCCT  
TCCAGCTTAATACCCATGTCCTTAAATCATTCTTTTTTCAGTAATTGGCT  
TGATTTCCCTGGCAGCTTAACATTTTGTAAAAGTCTTTATTTTCATGTGC  
CCCAAGAGTCTTTGCCGTTTTAAACTGTTGACCCCGGCTTGTGAATCG  
TATAAACCTAAAAATCTGTCCCTT

>Sequence 490

GGGGATATGTCGAGTCTCCCGCGGTGGCGGCCGAGGTACCTGATTTTATT  
TCCAGTTTTTCATCCGAATCCACTGGGGAATGGGACGATTTTGCTTTTGT  
TCTTGGCCAGGAATCGCTTAATCCTGAAAGTCTTGTGAGAAGACA

>Sequence 491

TTNTAAGAGATGAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAA  
AATAAAAAGGAGGCTGGTGGGAGAACTGCTTGAGCCCCAGAGTTTGAGGT  
TACAGTGAGCTATGATCACATCACTGCATCCCAGGCCTGGGCGATGGAGC  
GAAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGCAGGTGCA  
GTGGCTCATGTCTGTAATCCCAATACTCTGGGAGGCCAAGATGGGAGGAT  
CACTTGAGCCCAGGAGTTTGAGACCAGGCTGGGTAACACAGGGAGGACCC  
CGTCTCAAATATTTAAAAAATTAATCATGCGTAGTGGTGCAATTCCTGGG  
GGTCCAGCTTCTTGGGGAGGCTTAAAGTGCAAGGGTTAGCTTTGGGCCT  
TGGAAGACACAGCGTTCAAGAGGCTTTGAATTTGACCACTGGTACTTTA  
AACCTGGGCCGATAAAATGAGAACCTTTTCTTAAAAAATAAAAAAGGG  
GGAGGGGCCCCCCCCCTGTTTTATTTTGCACAACAAACCAATTTTTTTT  
AAA

>Sequence 492

TTGTTACGTGTCGAGCTCCCGCGGTGGCGGCCGAGGTACATGAGAGATAA  
TGTTATGACAAGAATAGTTTCTGCAACATTAAGTATGGGTCAAAAAAAGA  
AGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGGAGGCTGAGGCAGGT  
GTATCACAAGGTCAGGAGTTCGAGACCAGCCTGACCAATATGGTGAAAAAC  
CCATCTCTACTAAAAAAAACAAAACTTAGCCAGGCATGGTGGTGCACG  
CCTGTAATCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACC  
CGGGAGGTGGAGGTTGCAGTGAGCCGAGATCACGCCACTGCATTCCAGCC  
TGGGCAACAGAGCAAGACTCCATCTCCCAAAAAACAAAGAAATGACTTTA  
GACAAATGGCTTGAATGAAATTACAAAGAGGAGGTGCATTAAAAAATACC  
AGCAGTAAAAATCTTGAAGAATTAAAAATGACAGGCTAAAAATAAATATA  
AATGTTCTTTTTAAAAAATACTAGGTTGCTGCTGGC

Table 2

## &gt;Sequence 493

GGGGNNAATGGATAGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACG  
CGGGGGTGGCGGCGTTGGGTGAGCGGGCTTTTTGGAAGTTTGTGGCGGA  
GTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATCTCTAGCAGCA  
GAAAAAACAGCAGACAAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACAC  
GTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCT  
ATTTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGA  
AATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAGGAG  
GAGATAAAAAACTAAAACCTGAATATGATATAATGTGCAAAGTAAAATCC  
TGGGTTATTAGATCAAAAGAAACCTGTTTCGCTTCTATCATGATTGGAATG  
ACAAAGAATTGAAAGTGTTGAATAAACACTTATTTTTGACTTC

## &gt;Sequence 494

TTAATTTGATCGAGTCCACCGCGGTGGCGGCCGAGGTACTCATGGTTGCT  
GTAAATTAGGCAGCGTTCTGCAGGGTTTTGCTTAGCCAGGCTCCTCTGA  
GATCTGGCTATTCTGCTTGTGGATTTTCAGTCCCCGCGTACCTGCCCGG  
GCGGTTTCGAGCGGTGCTCCGGTCAGGTACATATACATTATGTAATTA  
AGCGTGCATGTTTATGTATTAATAAATAATTGGATTAAACAAATATTATA  
TATACATTATAACACCTAAACGCATAGGCTGTTGTTATTCACAATAGTTA  
TACCAATATTATTAATGATGTGTATGAAGACACAATACAAAGCTGGAGGA  
AGTATTTAATAGGTATACTCAACTAATACACATAAATTCTAAGCAATAAA  
GTACGCAAATTATGTTTTTGGATGAATTTTCAAATTTGTCATAATAGAC  
TTATATTCAGTTAAACTTGTATAATTTTTGGAATTTTAACTTGTGACA  
AAACTTTTTGTGAAATGTTTCTATTAAATTTAT

## &gt;Sequence 495

GATCGAATCAATCGGCAGCGCTCGAGGTACGATGGGGCATATCTGCAGAT  
CTCAAGATCTGGACTTCTGTTGAAAAATTTTCCACGTGAGGTTTACTTAT  
GTCTGTAAAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGAT  
TAGAGGTCATCAATGATTATCATTTTAGAATGGTTAAGTCCTTACTGAGC  
AACGATTTAAACTTAAATTTAAAAATGAGAGAAGAGTATGACAAAATTCA  
GATTGCTGACTTGATGGAAGAAAAAGTCCCGAGGTGATGCCTGTTTTGGCC  
AAACTAATAAAAAATTTTCGAAGATATCCCACCCCTTTGAACACCTGGTTT  
AACTTTAAAAAATAAATGTTAAAGGTAAAGGGCCCCCCCCCTTATT  
AAAAAAGAAGAAAAAAGGGAGGGGGGTTTTTCTTTTCCCTCGGCCCTC  
CCCAAAAAGCGTGTTTTTAAAAATTTGGGGGGGGGGGGGCGCTTTTTT  
TTTTGGTTTTCTAAAAAATAAATTTCCCCCAAAAGAAAAGGCCT  
TCCCCCAAAGGGGAGGTAGGGCC

## &gt;Sequence 496

TGGAGATGAGCTCACCGCGGTGGCGGGNCGGCCGGGCAGGTACCGTGA  
AGGCACTTCTCCTTGAGAAGCCTGACAGTGTCTGTTAATGTCCTGCTGGCG  
CATGGTGAAAATTTACAGGGCAACAGTAAAGCACCCCTCTTAATTTCCCTT  
CTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCCTCATTTGCATA  
ATAGGCAGTTTCAATAACTGGGGACTTTTCTTCAAGACCACACACAGG  
CTCTGGATTAAAACCCAGAAAATTAATCTTGAATGGTGTTCAACAACCTG  
GTGGAGAATGGGACCTTGGCGGACCTTGGGCGG

## &gt;Sequence 497

TGGAGCTCACCGGGTGGCGGCCGAGGTACTGGGAGCCTCATAAGGCTGGC  
TGTTGAGGTGTATTGACTGTGAAAGCCCGCATGTGAACTCACAAAACCTCA  
AAGACATGAGCGCAACAGGCACAAATGTATATTTAGGGTGAAAGTGAGAC  
CGCACATTGGATGTCTTGTGGAACATCATGAATCAACACACATAGTACCC  
CAGCTGTGATAACGCATGGAGATACACATGGCATGGGGCTGCATATAGGT  
TGGATTTGAAGCCGAAACAAGAGGTCCCTACTGAAATGAGCATTGAAACA  
CACAGGTTCAATTATGAGGACCGAATGAATATATTACAGAGCCCTAGAGTG  
GCCCTGCGCCGGAACGCGGCACATGAAGCAACTAGGCGGTAATTCTACAC  
CCTCTGTGAGTGAATAGCTGATGATCTAATGACTTCATTTCCGGTTACGC  
TGTCCTGACTTNNNCACCGGGGGGGGGGGGGGGGGGGGGGGGGGGGTTAACCC

Table 2

CAAGCTTTTTTTTGGTTTCCCCCTTATATAGGTTGGAGGGGGGTTTAAAA  
 TTTGGTCGGCGGCTTTTGGGCCCCGTAATAATTCAATGGGGTTCCCATAAGG  
 CCTGTGTTTTTCCCTTGGGTGGTTGAAAAAATTATGGTATATATCNCCGC  
 TTTCAACCAAATTTTCCCTACAAACAG

>Sequence 498

TGGTTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACAGGGCCTTCC  
 ACTTCAGCTGACTGAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACC  
 CAGGCCTCCTGACCCATGGTATCTACGATGAGATCCAGCTGTCCATTATA  
 CACCGTCACGTTGATCCCTGCCTCCAGCAACTTGCCACAATGCTAATGAC  
 TGGGTTTAAGGAAGTCCCTCCCCATGGTACAAAAACACGTGGGGGGCCCGG  
 CCTCCCCCAGTAATGGGACCTTAAGGAAATATTTTGGGCTTTTTTTTTTGG  
 GGGGGCCATTATTAACACTGGGTTTAAGGGCTTCTGTAGGGGGGGTTACA  
 AGGGGGCGGACAAAAAACAAACAAAGGGGGGTCTTTGTGGAAATTTTAAA  
 CACCCCTCCCCCTTTTTGAACCGGGGGGGGGCTTTTTTTTTAAAAAGGT  
 TTTTTAAAGAGTTCACCCCCCTCTTGGTTTTGTTTAAAAGAAGAAATTT  
 TTTGTTTTTTTCCCCCAAACAAATTTTGGGGCGTCTTTTTTAGGGGGCC  
 CCTTTTTTATGGGGGGATATCCCCCCCCCGCGGTTTAAA

>Sequence 499

TTCTTATATATGCTTATATATTTTATATATATAATTTTTCTTATTACTTC  
 TTTTCATGTCTACTTTAGCTTTACTCTATTTTCATATATTTTATTTTATT  
 TTCTANATTCTATCTATCTAGANAGGATGCGGGGGCGGCCGAGGTACCTC  
 AATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTTCAGTAAAT  
 TTCAGTCTTGCAATCTGCTTTGGGTCCCCAATCTAAGACAGAAACATAC  
 TCATTTTCCCATCACTGGACTTCAGGTTGTTTTCAATTTTTAACTGTTA  
 CAAACAAGGTGGCAACATTTATCTACAAACCTCTGGATATACACGTAGGA  
 AGCTTTTGGTATTTCCACTAGTGAACCTGCTCAGTTGAAGGGTATGTGGA  
 TCTTCATCTTTAATAAATATTACCAACATGTGAAAAGCCGACAATGTCA  
 AGGACTGGCAAGAGTGCCACATGTGATGGGTGTGGAATGGCAGCTCACTG  
 TAGCAGGTGCTGGGGACTCAATTGGGGTCTTGGAGAAGCACTTAGTTATA  
 GCAAGAATGTCTCATAAATGGGTTCTGATAGAGACCAGAGTAGTGGGGAA  
 TAAAACTAGTTGGCTAGAAATAATTATTGATCTAAAGTCAACAAAAAAC  
 CCTTTTTAATGTAG

>Sequence 500

TCTCTTGATCTTCGCTTTGACCGCATATCTTATTCTGCTTATTATCTTAC  
 TCTAATACTATTACCTTATTATACTATCTAACTG

>Sequence 501

CTCCGCCTTCTATTATACATTGTTATTTGATTGTTATCTGATATGTTTTG  
 TAATGCTCTTCGCACTCTATCCAGATATATTTA

>Sequence 502

ACTCGCGTTTTCGTTAATTGCTATCTTATTTGATTTCCTTATTCTTTTTT  
 TTCATTTCTCTATTTATTA

>Sequence 503

CCTCTTCTCATCTATTCTACTTTCTTATAATATCTGTAATTATAATCCTG  
 ATTATAATTTCGTCTTTTATCTTTTCTACATCTANAATCGTGTTCTTATCT  
 TTATGTACGTATACTCCTACTATTATCTTCTGACTATACCATCNAATACT  
 ACTTATGGTGATGGTTCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
 TTTTTTTTTTATGAATTATTTATTTTCTTTCTCAGAAAAGGATGTCGTC  
 TCCACTTAGCAAGGCATGGGCATGTATGTGGTTTTTGCATACTGCCCACA  
 TGACGTGGGGTGTGTTCTATGACTGGTCCGCTTCTATGAACCTAGGTGTG  
 ATACTCCCTCGGGCGTGTACGGAAATTTTCGATTATTCACATGCTCTAT  
 TCGTATAACCCGTTCTGAACCTTTATAAGGTGGTGGTGTCCCTCGGGTAAC  
 CCCAGGCTTTTTTTGTTTCTCCTTTATATGATTGAGGGTGTTTATAATT  
 TGCCGACTGCCTCTGTGGCCGTTATAATCCAATGTGGTCTATTAAGCCTT  
 GTTCTACCCTGGTTGGTGAATAAATTTGTTTTATCCCCGGCTTCCAAC  
 AAATTTGTTACCATCCAATCTATTATCTGAAGTCCCTGTGGGAAGTCAA  
 TAAATATGTTTGTTAATAAGTCTCTTGGTGTGTCTGCTCTCAAAATTGCA

Table 2

GTTTGGAGTCTTTAAACCTCCACCCATTTAAATTTGGCGGTTTGGCGGCC  
TTCAACTTGGCCCCCGCCTTTTTCATAGTTCGTGGGAAACCCCTTTGT  
CTGTTGTCCCAGTCTTGCAATTTTAATTGAAATTCGGTCCCACACCCCTC  
CCGGGGGTAGAAGGGCCCGGCTTTTTCGTATTTGGGGGGGCGCTCCTTAT  
CCGTTTTTCTTCGGCATAACCTTGAT

>Sequence 504

CTTAATGAAGTGATGCTTAACCTCACATTTAATTTGGCGTTGGCGCTTCA  
CATGCTCCGCCTTTTCCAGTCCGGGAAAACACTGGTCCGTGCCAGCATG  
CCATTACATGGAATTCGGCCCAACGCCGCCGGGTGAGGAGGCCGGGTTT  
GCCGTAATTGGGGCGCTCCTTTCCGCGTTTCCTTCGGCTTCAACTGGAC  
TTCGCTTGGTGCTTTCGGTTTCGTTTCGTGCTGGTTGGCGAAGCCGGGTTT  
CAAGCTTTAACTCAAAGGGCGGGTAATAACGTGTTATCCACACGAAAT  
CAGTGGGGATAACCCCATGGAAAAGAAACATTGGTGAGCAAAAAGGGCCC  
AGCTAAAAGGCCAGGTAACCCG

>Sequence 505

CACACACTTCATCTGTATCCATTATCATTCACTAACTTACTTATTTTAC  
ATACATGTTATCTACATTATTCTATGTATACTTGCATTGTCACTCA  
TCAGTCTATAATTATATTATTTGAAGTAGACCACTCG

>Sequence 506

CACTACCTGCTATCGTCCTTGNTACNTGTATCGTCAGTATCTACATCTA  
TCTNGACATCTATACAGCTTATNTATCGGTTTCGTGTANANCTATNGTATC  
TGTAAGTGTGTGTCAGTCGATATCTCACATCCGCGATATCGTTTCTGTATT  
ACGTCCTCTGTCTGTATTTCATCGTATGTGATATTATANTNATAATCATA  
ATGATTTTAGACTCACCGCGGTGGCGGCCGCCGGGCAGGTACTCGTCTT  
GGTGAGAGCGTGAGCTGCTGAGATTTGGGAGTCTGCGCTAGGCCCGCTTG  
GAGTCTGAGCCGATGGAAGAGTTCACCTCATGTTTGACCCGCGGTGATG  
CGTGCTTTTCGCAAGAACAAGACTCTTGCTATGGAGTCCCCATGTTGAT  
GGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTC  
GGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGAAGAATATTC  
GAGGACCCAGGCCTTGGGAAGATCCTGACCTTCTTCAAGGAAGAAATCCA  
GAAAGCCTTAAGACTAAGACAACCTTGACTCTGCTGATTCTTTTTTCTTT  
TTTTTTTTTTAAATAAAATATTATTAACCTGGACCTCCTAATATATACT  
TCTATCAAGTGGAAAGGAAATTCGCCGCCATGGAAACTTGGATATGGGT  
AATTTGATGAACAAAATCTTTACTTAAAGGCAAGGTTCTTGCCGTG

>Sequence 507

CACTACCGTCGCTATTCTTTGCTCTGTTATTAATGAGGTTCAATCTAC  
GTCACATTCTTATTTAATTTACTATATTCTTACATTTTATTCATAT  
ATAACTCATTTCTTATCTNTTCTCAAGTTTGATGTACGGGTGGCGGCCGC  
CCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATCCC  
ATATTTAGGTTAGATATGAGAAGTTGTGTATGCTGTGTTGTGTGCTGTGT  
GGTTGCTACGCACATGTGACTGATACTTGTAATACACTAAATTGAAGTAT  
ATTGTGAATAACATATCACTGCAATTTAATGGAACAAACATTGGACAAAA  
TTTTCATTTTAGGACTTCTCTAATTCATAATGATGTATTCCAGTTTCTCT  
ACAAGCTTTGGCTATTTAGTATATCTTAGCTACTTAAACATTTCTAGAAT  
TCTCTGGACATGGTTTTTCTCTGGTGCGAATATAAAGGTCAAGGGCCTCT  
TTACCAAGTTCTAAGCCAGCTCCTTTTTAAGCCTACGTCTATGTAAACCC  
AGTTTAATAATCTAATCATAACAAGGCAAGGACGCCCTTTTAACGGTTGG  
TATATTTTTTAGTTGAACCTCCTAAATAACAATGGATACCTTCCAGCGAGT  
TTTTCTCAGAAAATTCCTCTAACCACAATGGAAATTAGGTGGGGGAAGG  
TTGAACTTAAAGAATAAATCTGGAGGAAAAGGGTTATGAAATTTTCAAGAA  
TTATGGGTGGTTTAATATTTCTTCGTCCAAAAATATTTCTTATTCCTAGG  
GTGGCCATGAATTTTACCCCTTAAAGGACCTACCAACCCATTTAGTGAA  
ATAAATTGGAGCGGGATGTGTTAACCACATTGATTGTCAATAAAACAGGA  
TACAATCT

>Sequence 508

CTCGCTCCTTTATCTTCTTATTTTATCGATGTGATTGTATTTATCTTACT



Table 2

TATCGTTGTA

&gt;Sequence 509

AATTGGAGCTCCACCCGGTGGNCGGCCGAGGTACACTCCCACGACCACGG  
CATGGTCTCTTTCATATGGCTCAANNNTCAACTGGGCCGTGGGGGGGTTA  
TATTCTACTNTTNCATCTTTTTCACTTCNNANGCAAACACNNCCTCENNCT  
TANNCTTTNNANTCAATNCANTTNNCCTTAATNNAATCACAANTNTCC  
TCCATTACNCANNAANNTNTNNNCATTCAANNCCACAATCCGGGGGGGGG  
GGTNNCTNGGCCACATCANCAAAAATCACATCCACCATTCGNATCCNCN  
TACCTGCCCCG

&gt;Sequence 510

ATTGGAGTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTCTGAGCCA  
AGGACATTCTCATTTAAACAGTTTAAANAGGCGGGGTGCGGGAGGCGGAA  
AAAAAGAAATATACCCTGGCAGCGCTGCCGGCCGGAAGCGGAGAGGGAC  
GCTAAGATCAGCAAATTCGCCAGTTTGGATCCTTGTCTTTTCCGCCCTT  
TTCCCCCATTAATCCAGAACCCGTCACATGATAATTAAGAGGGGGCGG  
CAGTTCCGGCTGCTCAAACGACTGCGGTAGAGGATCCCCCGCGTACCT

&gt;Sequence 511

CAACTTGTAGCCTAGNCNGGGGCGTTCCCCGAGCNACTACTTTTTTTNNN  
NACANNNNNNCCGGNNCCCAAAGACTTTTCCACTCTGCTACTCAAGGTGG  
AGTGCAGTAAACCAAATCACAGCTCACTGCAAGGGCACACATCACTATTC  
CCAGCTAATTAATAAAATTTTTTTTTTTCATACAGATAGAGTCTTGCCATG  
TTGCCCAGACTGGTCTCAAAGCCCCGGAACCATGNTTCTTTGGGCGGGG  
GCCCCCAAAGGGCNGAGAAAACAGCCACGACCCACGGCACCAAGCNCGA  
NNGAGGGCGGGGAGACGCCGCAAAAGCAAAACGGCGGCCAAANCNGAG  
GGAGCAANNCCGGGGCGAAAAGGNAACGGAACCAACCAGAAAGAAAACCA  
AAAGAAAACCGGAGCACACAGGGGGAACCGCGCC

&gt;Sequence 512

TGGT

&gt;Sequence 513

NGCGTTAGGAGCACTCCGCGGNGGCGCTGGANNGTTTGATCAGGACGCCC  
CGNAGNCACCGACGAGGACCAGACGCTGNNANGAACATTTATTCAAAGCC  
CACCCGGNCACAGCCCNAAAGGCCAACCCTTTTTGGAGGNGCCNGGGANG  
CAAACCGAAAAAAAGCNGGAAAAAANNAGGAGNNGAAGCCAAACAGCCAA  
ANNNGCCANNAGGAAGNGNGNAAGGGGTTTCNAGTTTTTTTTNNGGGTT  
GTAGANCAACCCCNNGAAAAAGNCCGGGAGGACGCCCCAGAACGAGGGG  
GGGGGGGGGGCCGCAAGAAGGGGAGANCAAGCANNANCGANACCGGCGACC  
CCGAGGGGGGGGCCCCGNACCCAGGCGGGGGGCCCCAAGGGAGGGGAAACN  
GCGCGCGGGGGGGGAAACAGGGGGCAAAAGCGGGCCCCGGGGGAAAGGGAA  
GCGGCGACAAGGGAAACAGCAAACGAGGCCGGGAGGCAAAAGGGAAAGC  
CGGGGGGGGCCAAGGAGGGGGGGGAAACGAAAAGAAGAGGGGGGGGGGCA  
AGGGACGGCGAAGAGGGGGGGGAACCGGGGGCGAGGCGGAAAAAAGGAAG  
GGGGCAAGCCGCGGGAGAGGGGAGAGGGCGGAGAGGGGGAGGGGCAGAA  
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&gt;Sequence 514

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TCTTCAGTGTCTTCAGCAAAGGACAACCTCTCCAGCTCTGCCTGATAGAA  
CTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACACGTCTTTTCTC  
CAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAAGCAGGAAGT  
GAAACCACAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAA  
GAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATC  
GAGACACATTCTACGACAACTTTGAAAACGAACCCATCCTCTATGGTCGG  
AGCTACACTTGGCTGTGCTATGAAGTGAATAAAGAGGGGCCGCTCAAA  
TCTCCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTATTTGAGCCTC  
AGTACCT

&gt;Sequence 515



Table 2

GCGATTGGAGCTCCCCGCGGTGGCGGTGCGAGGTACGCGGGGACGGCGGAG  
 CTGGCTCTCACGTGGAGGCGGGTTAATTTGCCCCACCGGAATGATCACCA  
 AGACACACAAAGTAGACCTTGGGCTCCAGAGAAGAAAAAGAAGAAA  
 GTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGATTA  
 CTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGG  
 CCCATGGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAA  
 AAAAAAGTACCTGCCCCGGGCGGCCGCTCGACGTGGTCGCGGCCGAGGTAC  
 AACTGCAGTAAGAGGGACGGTTAATTCACAGCTTCCAGCTCTTGGCGCCA  
 GAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCATTCCGGGAGAACC  
 TCTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCCCTTGG  
 CGGGCTTTTCAAATAGAGCGTTGACCAATCAAAGAAGGGGGACGTTACAG  
 GCACTGAAAGAATAACC

>Sequence 516

TTTTGCTCTTGTAGCCCAGGCTGGAGTGCAATGGCAGGATCTCAGATCAC  
 TGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCTGCTTCATCTTCCA  
 GGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTTGTATT  
 TTAGTAGAGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCC  
 GACCTCAGGTGATCCGCCCCGCTCGGCCTCCTAAAGTGCTGGGATTACAG  
 GCGTGAGCCACTGCGCCCAGCTATACTGTATATTTTAAGAAGTTCAGCA  
 TGTTCATCTCTGCATTTATCCTATATCATTAAAAGAACATAAGTTATCA  
 TGGTGTGGGTAAATTAGCGAAATCAACCCTTCTAGGTTTAGGGGAAAG  
 TTATTTTTTAAAAACAACCTAATAAACTTACACTCTTATACAAGAGTGAT  
 TTCCCTTATTAGGATGCATGTTGATTAAACTCGAGATACAGCTTTTGC  
 AGATGGGGGGTTGGGTTTGGTGTAACCTCTTTAACATGTCACACTGGTTT  
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 TTTTGAAGTCTTATTATTTTTTAAAGAACTTAATAAAGGTCTAGATTGAC  
 AAN

>Sequence 517

AGGTACGCGGGTGTTGATCCAGTTCTTGCTTTTCAACGAGAAGGATTTGG  
 ACGTCAGAGTATGTGAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTC  
 AATTGGATTTCTGTTAAACACGAAAAATCAAAAAGCATGGATTTAGTAGCT  
 GACGAGACTAAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAG  
 CAGAGATGTGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGA  
 GTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCCTTTC  
 CATCGTCCA

>Sequence 518

CACNCAGNAGGCTCNNAAGCAGGACTAGGCACANCC  
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 CGGAAAGNNNNCCNCCANCCAGGGGAGAAGAGACNCGGNAGGGACACGCC  
 AAGGAGAGGGGAACAGGGGAACCANCACTTTTGTCTTTGGGGGGCACNGN  
 GCAGGGACCCCCACAAAAAAGACCNCCCCCAGGAGGGGGGGGGGCA  
 AGCGGAAAAAAAAAACAAGACCCAAAGAAAAAACAAGGGCACACAAAG  
 CAAACGGCAAACCCGCGAACCTGCCCCGGGCGGCCCGCCAAAAACCAGGGG  
 ACCCCCCGGGCGCAGGAACGCGAAAAACAAGCCAACCGACCCCGCGGACC  
 CGCAAGGGGGGGCCCGGGCCCCAGCATAGGAACCTAAGGGGAGGCGAAC  
 GCGCCCCCGGGGAACCAGGGGCAAAGGCCGGCGCCGGGGGAAAGGGGAA  
 GCCCGCAAACAGGCCACAGAACGGGCCCGGAGCAAAAAGGGGAAACCCGG  
 GGGGGCAAAGGGGGGGCCAACCAACATAAAAGGCGGGGGGGCCAGACCC  
 GCGGACAAGAGGAAAACCGGGCGCCCGA

>Sequence 519

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 ATAACCTCAAGGGGGGAGACGGTTTTCCCGGAGTCGGGTTTACCCTTGAAG  
 ACGTGTAGCGAAATCCCCCAAAGGCGGGAACCCAAAAAAGAACCCTTGT  
 TCGAGGGTTCCATAGGN

>Sequence 520

GGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACTATGTTGAATAAAT

Table 2

GTTTTTTCCTTTTAAATTTTCTGCTTCCCTAGTGCATAGAATTGAACT  
GCTTAGGGAGTTTGAGGCTGCAGTGAGCTATGGTCATGTTACTGCGCTCC  
AGCCTGAGTGATGGAGTGAGAACCTGCCTCAATTAATAAAAAAAAAAAGA  
AAGAAAAACAGTGCAGTGGCTCATGCCTGTCATCCCAACAGTTTTGGAA  
GCCAAGGCAAGAGGATTCCCAGGAGTTCAAGACCAGCCTAGGCAACTTAG  
CAAGACCTTGTATCTTCCAAAACTTTAAAAATTAGTTGTGTGTGGTGTG  
CCTGGCTGAGATGAGAGGATTGCTTGATCCAGGAGGTGGAGGCTGAAGTG  
AGCTAGATTGGGGCAGCAATCCAGCCTGGGGGAAAAGGGAACCTGT  
CTTAATAAAAAAAAAAAGAGACCAGGGCGCTTTAAACTAGGGAAT  
CCCCGGGCTGAGGAATTCAATTTAACTTATTGAATCCGTACCTTAAGGG  
GGGCCGGTCCCAATTTTGTTCCTTTAATGGGGAAATTCGCCTTTGGAAA  
AAAGGAATAGTTTTCTGAGAAATTTTATCGTTAAATTCCAAACATACG  
GC

>Sequence 521

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CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA  
TTGATCATCGACACTTCGAACGCACTTGCGGGCCCCGGGTTCTCCCGGAG  
CTACGCCTGTCTGAGCGTCGCTTCAAAAAAAAAAAAAAAAAAAAAAG  
GTCCCT

>Sequence 522

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CCCAGCTTCTGTCATGCTTCTGTGCAGCCTGCAGAACTGTAAGTCAATT  
AAACCTCTTTTCTTATAAAATTACCCAGTCTCAGGTAGTTCTTCACAGCA  
ATGTGAGAACAGACTAACAAATCAACTCATGGCTTTAACACAAAAAAA  
ATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT  
GAGAAAACAAAAAGTCCAAAATCAAAGGAAAGCACCCGTTTTAAACCTT  
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>Sequence 523

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TAAATTTCAAAGTGCCTCCGAGGGATGCAACGGGCAAAAACCTGAACTGTT  
CAGGCTTCAAGTTGTAAGTACGATCTGAGGAAAAATGAGGTTTGTGTGA  
TTTTGCTAAAATGCATCACCAACAGCGAATGGCTGCCTTAGGGACGGACA  
AAGAGCTGAGTGATTTACTGGATTTCAAGTGCGATGTTTTACCTCCTGTG  
AGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGG  
CTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGAC  
ATCCAAGCCCCGTCCAGGA

>Sequence 524

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CAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGACCATCTTGA  
AAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTTG  
TCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGT  
AGTTCAGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTG  
ATGCTGCCCTGTTAGACATCATTTGTAAGTGCTGGAGTGCAAGTAAACGCCA  
TCTCAGCTACCCGCGACCTCTGCCTCCTGGATTCAAGTGATTCTCCAACC  
TTAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCATATATGCAA  
TTTCAT

>Sequence 525

CGGTTAGNAGCNCTGCGNCTGTGGCGNCTTCCGATCNTTCGNGAGCTTT  
ACGGNCCCNCGGCCAGNNACCCATTTTTTNNGANAGTTNGAGGCGG  
GGCCTCCCCGACCCNGGAGAGGAAGGAGACNGTTTTTTNAGGNGCCCCGG  
GGGCCACACCCCAAAAACCCCGAGCCCGCAANNNGCACCGGACANAACA  
NNGCGNGGGCGCAAAACANCAACNGGGAACANCCCCGAGGGGAAACCGCC  
CTTTTTTTTTTTTGTGTTTCGCAANNAGGGNGCCNNGCGCGCCACAA  
GAAAGACAACCAAGGCCCCCGGGGAGANCGGGGNGCAGGCCCAACTTTC

Table 2

TGTGGGGGTGTNCTTGNGGGACCACACATCTTTCCTTCCTGGTGGGCAAC  
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 CTGAGGACCCAGCTTCCCTCTCCAAAGAGTGGATCATTTCCTTGTTCAAA  
 GATCCAGGGACCCTGACCGTTCCTACCTTTTTGCTGAAGAGATTTATGAC  
 CGGCAAGGTGGAGCCCCTGGGGCCTGGAATGAGCCTCTCCTGAAACACTG  
 GGGGCCCGGAATTCCACGCCCCCTGGCGCAGGTCACACAGCCCCGGGTCC  
 TTCGCCCCTGGGTGGCTTAGGGCCTCCTGGCATTCTGGAGGGGCCCTAT  
 TCTAATACCAGCCCTCATCAAATTGGGGCTACAACCCCAAGGCCCTCTGG  
 ATC

>Sequence 526

GCGATTGGAGCACTACGCGGTGGCGGTTGAGGGACATGACATGCCACCAG  
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 TTTGTTTCACTGTCTGAGGACTATTTATAGACAGCTCTAACATGATAAC  
 CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTTGGGGAAGAA  
 GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGAAGGT  
 GTATGGCCCCAGGGATGGCCATATTACTGACCTCTACAGAGAGGGCAAA  
 GGAAGTCCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT  
 ACCTGCAAGGCTTTGATCTTTCTTCTGCCATTTCCACATTGGACATCTCT  
 GCTGAGGAGAGAAAATGAACCACTCTTTTCCCTTGATAATGGGGGTTTA  
 TTCTTTAGACAGAAGAGAGGAGTTATACAGCTCTGGAACATCCCATTCC  
 TGTATGGGGACTGTGTTTGCCTTTTAGAGGTCCCAAGCCCATAGAGGAGA  
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 AACTACAAGGGGCTCGAACCCAGAGAGAGGGGGGACTTTGCTT

>Sequence 527

AGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTT  
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 TGTGAACTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGA  
 AGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTG  
 TGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTCTT  
 CCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGT  
 TTT

>Sequence 528

AACATGGAGNCACCA  
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 CCGGCCAANAANANNGCAAAAGNNCCCCCATTTTTTTTTTTGTGTGTG  
 AAAAGGGAAGAACCTAATGCACGCTTAACATCTTAACAGGGTGGGAGTG  
 CAAGAGATTGATGAGTCCAAATCTGACCAAGATGGTGATGTTGGATAAGA  
 GAATTCTCTGGTTCACCTTTAAGTGGCCAGCCCTTCTAGAGGTACCTG  
 GGGAGCAACCCGGCTAGGTACATCAAACATG

>Sequence 529

ATTGTTTCAATCTTTTTCAAGCGTTTGGCACTCCCCGCGGTGGTTCGGCCG  
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 ATGTAAACATAAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGG  
 CAACGTGACCAATTTTTGGTCTCAAGTTAAAATACCAAAAACTATTACAG  
 TGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCCAAC  
 ATTACTGGCGTGCTTTTTTGTGTTGCGTTTTGAGGGCCTTTTGGTGCTGCC  
 TATTAATTACGGCGCTGGTTTTTGGTFTGTGTTAATACGCTTATTTATAC  
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 CACGG

>Sequence 530

AGGTACTTGGAACCCATTTGGATTAAATTAGAGGTCTGTCTGAAGGAGTT  
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 ATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAG

Table 2

TAGGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAA  
GGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAA  
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>Sequence 531

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GACAGNAATAAGGANTNNNA AAAAAACAATTTCCACCCGACAGTAGNCACC  
TTTACACNGAGGANAACGGGAAC TTTATTTAAAGGATATTGTCTCATTTTC  
TAACACNCNGNAANCCANCTTCCCTGATAATAAATCACTGGAGAACAAA  
AGCGAATAACAGCAGGTCTCTCTTTT TATTCCAATTTCTTACATTTATT  
GCCAATGAAGAATTCAAATGCCAAGGGCCCTGCCTAGAAAGCCACTCTAA  
AGCAACAAAGAGGTCTGCCAATTCGCTTAAAAAACAACCCCAAGAGAA  
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ACCACTCATATAACCTCACTCATAAACACACATCAACACTAGACAGACTA  
CATAATCAACATCCACAAC TCAACAACAACACTTAAAATGTTCAACA  
AATATAACTACCACACCTAATACACCAAGCTTGACTACACTCATATAAA  
CAAATCTCGTAACACTCACTTATACTCTACAAC TACTCTCATTTCACTTA  
CACACAAACACCTCTTATTATCTCTCATATCAATCAATAATCATTGACT  
ATCATACACAACGTATACTACTTCAATAGAACTANACTACCAATCTTCC  
ATAACTACACGCCG

>Sequence 532

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GGGAGNGNGATATTTTTTTTATTCAATTCGCGATTGACAGNNNNAGATCAA  
AATGTTATTAACACTCTTAGAAGACTGGTTTGTTCAATTTGACATTGGGAC  
GTGCACCAATTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATA  
TTTGCACAGTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAA  
ATCAAAAAC TTAATGCAGTTTTTATTAAGAGAGTCAAAATTCTCTCAGTTA  
ACTGGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAAC  
AAAAACAAGGAAAAAAGAAAAATACATGTCAACAGTCAGTTAAATATTTTG  
ACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTG  
TTACATGTGGTAAAACTTCCAGAAACCAAGTAGGAAGTGTGGAATAAAAA  
CAATAAATTCAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATGAAGCCCA  
AGACAGTGATCTTTATTATTAAGGAGGGACCACTGTGTCCACAAC TAAAA  
ACCTTCAACCACATGGTGATCTGCAAAGCTTTATTTGAAAAAGACAAACA  
TTCTTTTCTTCACACAAATCAATGCAAGAAATTTTTTTAAGGCTTGTACC  
TTCCCGGGCCGGGCCGTTTTTTAAAAAACTTTAAAAAT

>Sequence 533

GGTGTAGGGGCACTACCGCGGNNGGTTTTTCGAAGNACGATCANNCCCCCA  
GCNGCNNGCCNGCAAAGANGAGCCGCTGCGAGACGGGTTTANTCGCNCC  
CTACCCNGGAGANCNNGGCCNNACATNNCGATTGNGNCACNGGGCGCCACC  
NCACGGGAGAAGGNCNNGCCGNAAGGGNNNNCACGAAGANCNGCANNNN  
GACCNNGNAGCGGANACCAGGATTTTTCCAATTTTTTTTTCCACGTTTCC  
CACAGGGACACAAACAAGCTCACCCAACAAGCCAACCGCCCCCTGCCCGC  
GTACCTGCCCGTTCTT

>Sequence 534

GCGTTTGGAGAACACCGCGNGGGCTTTTCGGGGTCTCTACTCTCTGCAGA  
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TGAAGCCTGATTACTGGAGTGACAAACTATTGAAAGAAGCAGAAGCGTTT  
GCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGGCGTGGTGA  
AATGAGGGATCTCTTTGAGAAATTAAAGATCACTATTTGGATTACTTCAT  
TCTTCCAAGGTTTCAAAAAGTCTCATTTCTTACTCGAGCCTTCAGTGAAAT  
TCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAGAAAAATCTCC  
TGACTCGAAAACGGAATATTCTGATACGGAAAGTATCGTCTCTTTCAGGT  
AAGACAGAAGAAGTGGTCTGAAGAAGCTAGAGTATATTTATGCAAAACA

Table 2

GCAAGCACTAGAGGC

&gt;Sequence 535

NGACTTTGAGGCAACTCNCGCGCNGGCGCTGCGNCGGNGNCACGACGCG  
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CGGGACCAGAGGCNCAGNGGNGGAGAGANCCNCGATTACCCACCAACC  
AGAACGNGGGCCCGCCAGAGGCNNGAACNGAGAGAAAAGANNCNGGGGCGNG  
CNAANGAAAANANAGACANNCNCACANAAGCCTTGTNCATTTTCTTTNCC  
GGCGTGACCGNCCACCCGAGAAACANNNCAANAGGCNGCCGNNCAAA  
CGGGGGGGAGCACGGACTGTCAGNNCNCNGGGAAGGGGNCAGCGCANCCG  
GCAGGGCNCNCNCCNCCCCGNCNNNGGAGAACAGGGCTCNCNCAGGG  
GCCCCAGGGACGGCCAGGCNGNNCCAGCCAGGAAGGCCAAAANCAAGAGG  
GAGANGNAGAAAGGNGAAAAAAAGAAAAAGGGGAGNNGGNGAANCNGGN  
GNNCCNCCCCACAANNNGGANGANNGGCANAAAGGGNNNAGCANGNCCCN  
CCNNNCCNCACCCCCCNNGGNCNCCAATAACAAGAGAAACNCCAAAG  
GAANGGGGAGGGCCGAACCCACAGGCGGAGAACCCGGCACCCCCAAGCAN  
NCAAGAAAAAGGCGCCCCCAAAACAACAACCCCCCAAGGG

&gt;Sequence 536

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GNACAGCCNGAGAGTNGCTGGNAGACTCTTTTANCANCCGCCGCCACNA  
TCCATCCATCNGCTCATCTTTCTCCATCTGCTCAACAAACGCTAGAGAA  
TCAATCCTTGTGTGAGATACTGGGGCTGCCCTCAAGGAGCTTTTATAGAG  
TTCAGGGNACCTTTTTCGCTCTTTTT

&gt;Sequence 537

GGCTTTGNGCNACTCCGCGGNGGCCCTCGCAGTANNATCGNGGCCC

&gt;Sequence 538

GCGTTTTGGGGCACACCGCGGNGGCGTTCNGANGTACGATCNGCGCCCGC  
CAGAACAGGCCACAGCCCAGAGCCCTGCGGCNGCCTCATTACNCGGNACA  
AGCTNGAGCGGGGGGACAGGNCGGCGGGTTTTGGAAACACTGGACTGGAT  
GGCACATGATCCAGAACTCCGCTCCGTTTGGCTTCCCAAGGATCCCACCA  
ACTCATTCTAATCAGCGATCACTGTTTAAATTTCTTTTTNCCTATTAC  
TATNNACAGATCAGGCCACCTCATTGGCATATTAAGAAAGTTGTCTCA  
AGTATATTTAGTGTTTATCATTTTACTATAGTTCTTCAAATGACTGACAT  
TCATCTTTTCCCTACCTCTAAATTCCTTTCTTTTCACATTATCTTTCTT  
GATTGCTTTTTAATAGAAAAACANACAAAGACATGGATTTACTGTGCATA  
TTAGCAGATCCATACTGGAAAATGCATGGAGGTTTCATATACACCACTTA  
CAGAAAGAATAACTCAGAGTATAAAGTCGAAAAGAAAGAATCTGAAATAT  
TAGACTTGTCTGGAATAAGCGTACCTAGGATGATACCACTTCACTTAAT  
CAGATTTCCCCTTCCACTATTTAACAGGGCAATATAAAAAACTGGTAGT  
TAAATACACAAGAGGCACTTATATTACTGGCTCCTCAACCCA

&gt;Sequence 539

CCGGGCAGGTACTTTCTTTTTTATAGTTTTTTTGTGTTTTGTGATTTTTT  
TTTTTGGTTTTTGTGTTTTGTGTTTTTTTCTTTTTTTTTTGGTTCTT  
AGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGA  
GTTTATTCTGATTGATTTTTTTTCTTGGTTTCTGGATAAACCACCCTCTG  
GGGACAGGATAATAAAACATGTAATATTTTAAGAAGGAAAAAAAAAAAA  
AAAAAAAAAAGGCCCGGGCC

&gt;Sequence 540

CCGGGCAGGTACTTTATTTGCTAAAAAATGCTAATGATATCCAAACCAT  
CAGCTACTTGTAATCTTTTTGCTGGTGGAGGGTTTTGTCTCAATTTTGGT  
GGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG  
CAATTTCTTAAAAAAGACAACAGGCTGGGTATATTGCCTCATACCTGTA  
AATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCTTTTGAGGCCAGGA  
GTTTAAGACCGGCCTGNGCAACATGGTGAGACCGTGTGTCTGCAGAAAAT  
GAAAAGAAATTGGCTGAGTGTGGTGGTGCATGCCTATACTACCATCTACT  
AGGGAGGGTAGGATGGAAGGTTTGCTTGAGCCAGGAATTCAAGGTTGTG

Table 2

CCACTGCACTCCAGCCTTGGATGGCAAAGTGAGATCCTGCCTCAAATTTA  
AAATAAATTAATTAACCANANAAAAAANAGGACCTCGG  
CCGTCTAAACTAGGGATCCGCCGGCTGGAGGATTTAATATCAGCCTATT  
CCCCCGGGCCCTGGGGGGGGCCCCCCCCCATTTTTTCTTTAAGG  
AGGGTAATTCGCGCTCGCCAAATATGGAAATACTTTTCTTGAAAAA  
TTGTATCGCCCAAN

>Sequence 541

GGACGGTCAGAACCGATACCACCGCGGCGGCGGCTGATGTACTTTTTT  
TTTTTTTTTTTGTAAAAGACACAAGTAGTGATATCAACATCTGTTT  
AACTCGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTT  
CTTCTTCCATTACCTTTTCTGATTTCCACTTTCAGTTTCCATTTCGTTG  
CTATCTTCTGGTAGCCACAGCTCAGCTCCAATCTGCGAAATACGGCACTC  
TCTTTATTGACTACTGCTTCTCTCGGCCCCCGCGCTGGCCNACGGGAGTA  
CCTGCCCCGGCGGCGCT

>Sequence 542

GAGGGGTGACTCCCCGCGTGGCGGCGCGCGGCGGTACAAAATGTAAAG  
ACGTTGTTTGTATTTGTAAGGCTGGTGTATTCAGAGAGCATATCTCTTAT  
TCCTCACTTTCACCCCGTATTTTGTAAAGCATGATCAATGTTTTTA  
CTTTTTGTATAATGGGGTGGGGTGGAGTGGGGGCTATTGACAGTCACCCCT  
GAGGTCTTTAGAGGACCAGCTATTGTATCACCTTGGATACTTGAAGTTTA  
ATGCTCAGTTGGGTGGGTGGCATTGACTTGGAGGCTGGCATGTTCAAC  
AGAGCCTGGGGCCCTGTATCTGGGCAGCCTTTGAGGATTACTTATGATAT  
TGAATGACAGTCTTAAGTGGCAACTCACGCCCAGCTCATGCCCTTTTTG  
CCTGGACATGTGCTATTTTTATTCACTTATATGTGATTCACTTGTGAGG  
TTAACTTTCATACACGAATTGTATTGGGACAAAACGGCTGTTGGGGATT  
ATATATCCCTT

>Sequence 543

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AAAGAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAG  
CATCTTGCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCA  
TTAATCTTTACAACCTCTCTGCAAGGTTCCCTGGTTGTGAAAATACATG  
AGATGAATCATGAAGGCCACTATCATCTCCTTCTGCTTGACACAAGTTTC  
CTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAG  
ATGAGGCTTCTGGGATAGGCCAGAAAGTTCCTGATGACCGCGACTTCGAG  
CCCTCCCTATGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTTAAAT  
GGTCCAATGTTCTGATTTGGGTCTGGACAAAGTGCCAAT

>Sequence 544

GAGAGGGTCCCGGGTGGCGGCCGAGGACACAATACTTACTTACAAATTTA  
ATACTGCTTCAAGGTATTTAATCTAAAATTTTACCAACTTTGATTTGTCT  
GGTTAGGATATTTTGTTTAGTGGATATGCTTTAATTTCGGATCAATTACT  
GCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCAACAAATACCCAGTT  
CCATTTAGTTATCAATTAGCCCAATAAGAGATACAAAGTATAACAGTGA  
CCAACCTTGTACCTGCCCCGGCGGCGCTCGACCACTGACATAGACTGAA  
AGCAAGAAGAGTGTGTGTTTGTGCTATATCCCCTCCAACACCTAAGGC  
AATGCATTTACATCTTGCTGAGAGCAGATAACTCAATACCTGGAAGTAG  
AAAATTAGAATCTAAAAGACGGAAGGCATCTAAAGAACAGTTCCCATCAT  
GCCACAGCTGAGAAATTGGAGACC

>Sequence 545

ATTGTATATACCGCGTACCAATTTCCAACACAACTATACCGAAGCCCG  
GGAGAGACATTAAAAGTTGTAAAAGCACTTGGGGGGTGTCTTATATGG  
AGGTGGAGGCTTAAACTTCAACATTTAAATTTTGGGTTTGGCGGCCTTC  
ACATGCGCGCGCTTTTCCAGTTTCGGGGGAAAAACACTTGTTCGGT  
GGCACAGACTTGCAATTTAAATTGGAATAACGGGGCCCAAAACGGCCTC  
CCGGGGGAAGAAGGGCCGGGTTTTTGGCCGTAATTTGGGGGCGGCTTC  
TTTTCCGGCTTTTCCCTTCGGCGTCAACTTTGAACTTTCCGCTTGTGCGC  
TTCGGGTTTCGGTTTACCGGCTTGCCGGGCCGAGGACCGGGTAATTTCAAG

Table 2

CTTCG

&gt;Sequence 546

GCCCCGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGC  
AACCCAATAGGATGGCCATCTGCCCCATTAATGCCAGCTTGTCCAAGTGT  
AATTATTAACAGTGCCCCCTTTCCTCTCCAAAGAGTCCCTGTCCAGACA  
GGTAATTGTGAAAGTCGCCTTCAAAATGACTGGCCGGTAAGGAAAGTGGA  
GTGAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCT  
CAGGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTAC  
TCTTGCCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAAATCC  
AAATCCAGAAACATCAGCGTTTTGAGGTTAACATGTTGGCAATTATTCAG  
CTTTATGAAATAAATATTATCTTTCTTTTCTACCCGCTTGGGAGCCTGG  
CAAAATATGGGGGGGACCCCTGGCTTCTTTG

&gt;Sequence 547

AAACAAGTTCACATAATCATCAATTACAATAAATTTTACAATCTCAT  
CTTACTATTTATATAAATATTCCTAATCTGTATAATTTTTATTATATTAT  
ATATTCTTATATTAATTTGAGGCCCGGGCGCGAGTCAGGTAAGCCCTG  
GCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCCTTCATACATCTCAAG  
TTGGGGGACAAAAAGGGGAAGGGGGGCACGAAGGCTCATCATTCAAA  
ATAAAACAAAATAAAAAAGTTATTAAGGGCGAAGAATAAAAAAAATTTT  
GGCATTTACATAATTTTACACCGAAAAGCAATGGCTTATCACCCCTCCCC  
TTGGTGTGGCACTTTGGAGATGAGGGACCCTGGGCCAATTNTNCTCCTTT  
AGAAGAGGAAAGTTGGGGGTGGGCTTTCTTAGTGAATGNGGCAAGGGGAG  
CTTTCCTGTTTAACAAACCGCCATTCTCAATATTTTTGGGAAATGAAC  
CCTATTAAANNAAAAACACACAAAATGTGGCAAATCCTAAAGGTCCCTTC  
CGGCGCACCATTGTGTGAAAACCTTTGTGGGGGNAATTGTCTTCGCTCT  
CAAACCCGAACCTTGCTGTTCAACTCATTCCACCGTTTTCCCAAGTTTTT  
TAAAAATTCCTGGAGGTCCAAAGCCCCAAAAAATAAAAAAACCACAA  
AACCAAAAAACAAAAAATAAACCATTAAGG

&gt;Sequence 548

GGCGCCGACAGTACCCTTTGTAATATCCTTTATATAAACAGTAAATGCT  
GTTTCCCTGAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCCAAGAA  
GGGGGTTGTGGGAACCCCAATTTATAGCTATTAGTCAGAAAAAACAGG  
TTAGACAATCTGGGGCTTGGGACTGGCATTGGAAGTGGGGGACAGTTGTG  
CGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATG  
AAGTAGAATTGAACTGGGGGACACCCAGCTGGTGTCCACTGCAGAAATGAA  
TTGCTTGCTTGATGTCTAGGGAGGCCGAGAAATTATAGCAGGAGGTGAAA  
AGCACTTCTTATTAGCAGTGGCAAGAGAAAATGAGAAGGAGCAAAAGCTG  
AAACTCCTGATAAACCAATCAGATCTCATGAGGCTCATTAACATAACAA  
GAATAGCATGGGAAAGACTGGC

&gt;Sequence 549

ACTTGATAGCGCCGTGCGTGCCAGTGAACCTCTCAGCCCCCGTATGCCGA  
CCTGAACCTCACATGCGTCTAACGTCTATTGCATTCATGTCTGGTGAAAG  
AATCTCAATCATGAATGGGGTACCTAACAGACACCTATCCTCGCTGGCGA  
AAAGAAAAGAATGGGCTGCTCTCAGACCGTAGACCCTAAAAGGACCTGCG  
GTCTGTGCCCCCGGTCCCTTGCCACACGGCCGACCAACAATACTGGA  
CCCCCTGGCTGTATGAATACGATATCCATCTTATCAATCCCAATAACCCA  
CATGGGGGGCCTGGCCCCCATGACTTGTTCCTTTAGACAGGGTTACTGG  
CTCGCTTGGAAGGCGATGGGCATAACTGGGTGCTGTGCTGAAAACACAT  
CCGCGTCCAATTTCCCAACCGTACTAACCGAGACCATATAGGGTGAACA  
CCGGCGTGCTAACGCATGACCTGAACCACACTAATTGCATCATACTTAC  
TGCCCCCTCTGCAGTGTGAAAACCTGTCTGCGCAGACCGATGCATGCAGC  
G

&gt;Sequence 550

ACGTGGTTACCGCCGTGCGTGCGGAGGACTACACGATGATCGGTGATTG  
TGCTCATGGGTACCCAGCTGCACCCATGAACTACGCCGAGAGACTGTTTT  
AGGCTGTGAGGGACTCAACCGTTATACTGAATGGAGAGCGGGACCACATA



Table 2

CTGGCTGGAAAGTATACTGCGGACAGTCCGGCCCTGCCCAACCACTCTGT  
GGAGAACCTACGCACTGCACGCCATGCCTGTTTCTACTCAAGCCTCAAG  
ACTTCTACCTTGATCTGCTTGCTTCCTTGACCATCTACCTAGAACTAAC  
CGAGTCCCAGCTCCCAACCTGGCATGAGCTTGGACAGGGTGGACCGCCAC  
CCTGCCTGAACCATGGAGACAGCCTCTGGGATTGGAGGCCAGAGGCCAGG  
GTCAGACCCAACACGGACTCCTAATTTGATGTACAGACGCAATTAATAA  
GCTTATTTAATCCCGCCTGGGAACTTAAATTATTGCGGGGCGCTCACTGC  
CCATTTTTCAAAAAAAAAAACCTGCCCC

>Sequence 551

GTGATGACGACCGCGCGGCGGCCGAGGTACATTAGCAAAAACAGTGGACT  
TTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCTACTTTCTAAGT  
CTCTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTTAC  
TCGGATGTGAAACTCTCCTTTTGTAGATGAAACCATTGCGTAAGTAATAT  
AAAGACTTTTCCCTGTAGTTATCTTACAGACTGGAGAGAGTGCTAGTGAA  
TGCTTTTGTCTTCAATGCCCATCTCTTGAAATATTGAAGGTGGAGTAGC  
AACCGGGCATTATATTATCTCTTGAAAAGGACCTCAGCAATGGAGAATA  
TCCCCATCATCACAAGTGTCACTCTGCCGCACGTGATTGTGGAGAAT  
ATCCCTCTCCATGTGAATGCAGAATGAGATTCAATTTACAAAACGAAGCCA  
TTAGGGGGGAGCCTTTTTTTTTTAAACCAAGAGAAGTGGGGGCATCTTTCT  
CTGGAAGATCTGGCCTCATTTGGGCCGTGTAAAAAATCC

>Sequence 552

TTCTGTGCATTAATTTTATTTTTGTTATTGTGTTTAAATCGAAGATATTT  
TTTTTAAATTACGTTTCGTTAGTTATGTAATATATGGTAGTTGCGTGGTTT  
ATTATTTTTTTTAGAGATGAGACGAGTGGCCGGCCCGCCCGGCAGGTACT  
ACAATGATCTGAAGCACAGTGTATTACAGACAGATACAGTGAACCAAGTG  
CAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTAAAT  
GCCTTGCTTTTGCAAAATGTTTTTATATTAAATCATAAGGGAAGGGAATA  
CTGCCTTAAATGTTATCAAAAGAGTTTTCTAACAAGGTTAATACCTTAGT  
TCTTAACATTTTTTTTTCTTTATGTGTAGTGTTCATGCTACCTTGGTAG  
GAAACTTATTTACAAACCATATTTAAAGGCTAATTTAAATATAAATAATA  
TAAAGTGCTCTGAATAAAGCAGAAATATATTACAGTTCATTCCACAGAAA  
GGCATTCCAAACCACCCAAATGACCAAGGCATATATAGTATTTGGAGGAA  
TCAGGGGTTTGGAAAGGAGTACGGAGGAAGAATGAAGGAAAATGCAACCAG  
CATGATTATAGGGGGGTTTCATTTTAAATAAAAGTTGAAGGCACAGG

>Sequence 553

GAGATGACCCGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTG  
GAATTTTGATGACCTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGA  
GAATTTACACCAAACCCAAAGGCCAGTTACCAGATTACACATCCCCAGTG  
GTGCTTCCTTACTTCGAGCGGCCCGCCCGGCAGGGACTTCACACCAAACA  
CTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATATCCA  
CATTTACAGTCCGGACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAA  
TATAAAAGGAAGAGAACAAAACACACATTCATACTCACACTTAAAAAT  
AGGGGAAGACCAACAGGGGAACCTTCGTTCTCTCTGGATGTCTACTTAA  
AAATCCCATGTGGTACCT

>Sequence 554

GAGATGCCCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTG  
TATTGAAACAACAATACATTTTGCAGTGTAGTAATGGGAGCACTAACTCT  
TACAACAGTTAGTGAATCGTTTTAAAGAATCAGTTCAGTGTAGACATTTT  
GAAAAGATTGTTTCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTC  
TGTTTTACTTGCCATTTTCTGCTCTGTTTTCTCTGTGACATGAAGCAAC  
AGAACTGAGATCAAAGTTAAGATTATCCTGTTTGTAGTATCAGATAT  
TTTTCTGTGTACATTTACATTCAAGTTGATAACACTGGTGGTTTCATTC  
AATACAAATTATGCTAGAGAACTGACATTTTCAGACATGGTCATATATAT  
GCTATTTGAATTCCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGA  
TGATAGATGTGCAGCTAATTTGTCCCGAAACTCATGAAGAT

>Sequence 555



Table 2

TGAGAGATCCGGGTGGCGGCCGCCGGGCAGGTACAAGACCATGACACGC  
CCAAAACACTTCCTGCAGATGTTGTCGTTGGAAACTGTCGTCTTACAGA  
AGCCAGTTGCAAGGACCTTGCTGCTGCTTGGTTGTCAGCAAGAAGCTGA  
CACACCTGTGCTTGGCCAAAAACCCCATTTGGGGATACAGGGGTGAAGTTT  
CTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTT  
ACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGC  
TCCAAGAAGCCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATA  
GCTCGTGGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAA  
CCTAAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAAA  
ACTTTTGANGAAGTGAAAGAAAAGAATCCCAAGCTGACT

>Sequence 556

GAGACTGCCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGCGACTCGC  
AGCTGCAGCAAATCTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTC  
CATCTCTCTATAGCACACCTTTTATTTCTTTTCTTCTTTTTTAAGCCTC  
ACGAAAGATTTTACTTGTAGATCAACTTTCAAAATGTAGGAAGTCAGAAT  
GGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAAGTGAAAGAA  
CCCAGAGCACGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCG  
TCTGGGCTTCAGAGGAGCCAGCCTCCGAGTTGTCTTGAAGTGAGGCTC  
TGCTGTAGTCCGTCTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTA  
ATTTGCTCTTTCTGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTG  
CCCAATCTTTTGCAACAGTTGAACCAAGAATCTGAAGCTGATAT

>Sequence 557

TGAGATGCTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAAAC  
TTCTTAGATTTTGACCTCAGTCCATAAACCACACTATCACCTCGGCCATC  
ATATGTGTCTACTGTGGGACAACTGGAGTGAAAACCTTCGGTTGCTGGCA  
GGTCCGTGGGAAAATCAGTGACCAGTTCATCAGATTCATCAGAATGGTGA  
GACTCATCAGACTGGTGAGAATCATCAGTGTCATCTACA

>Sequence 558

GGGATGTGTCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTGTTTTGAGACGGAGTCTCCCTCTGTTGCCAGTCTGGAGTG  
CAGTGGCATGATCTTGGCTCACTGCAACCTCCATCTCCTGGGCTCAAGCG  
ATTCTCCTGACTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCAC  
CATGTCCGGCTAATTTTTGTATTTTGTAAAGACGGGGTTTCACCATAT  
TGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCGCCGCTCGGCC  
TCCCAAAGTGCTGGGATTACAGGCCCCGAGCCACCGCACCTGGCCTGTATT  
CCCGCTACCTGCCCC

>Sequence 559

TAGATGACTCCGGGTGGCGGCCGCCGGGCAGGTACGCGGGGGGTGCCTG  
GCTCCGTTTCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGT  
GGGTTTCGTGCGCCTTCTACCTCGCTGTTTCGGTTTCTTGGCTCCTCGGC  
CCTTTTCTCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCTGGGAT  
TTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAA  
TCATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAAT  
TGAAGAGATCCCTATATGCCCTGTTTTCTCAATTTGGTCATGTGGTGGAC  
ATTGTGGCTTTAAAGACCCTTGAAGAAGAGGGGGGCAGGGCCTTTTGGCC  
ATAATTTAAGGGAACGGGGCTATTCCACCAAAGGCCTTGGAGGACAGGC  
TACAAGGGATTTCCTATTTTAGGGGAAACCCCAAGGGGGGAAA

>Sequence 560

GCGATGTGACTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTGATCGGCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGA  
ACCCGGGGCCGCAAGTGCGTTTCAAGTGTCGATGATCAATGTGTCCTGCA  
ATTCACATTAATTTCTCGCAGCTAGCTTGCCTTCTATCGACGCACGAGCC  
GAGTGATCCACCGCTAAGAGTCGCCCCGGGTCCCTGGCCCCGGG

>Sequence 561

TAGCTACTTTACGCTGTCTGTACATTTNTGTCGTATACATGAGTACTGTCA  
TAATACTTTTGACACTTGCTGTCTCTAGTTTCTAATATTTATATTATAAC

Table 2

ATGACATTGATCTATAATTTTGTCTTTTATTTTANANANATATTTGCGAT  
GGCTCCCCGGGTGGCGGGCGAGGTACCATGTGGGAAGCGCTGTGAAGAGT  
TGTTGCCTTTCAAGATATACCCAAATCCCAGTTCAGCCCGTGTCTTA  
AAACTCCGCTGGCGTGAAAGATGACGTCTTAGCCCAGCAGCTGCAACGA  
CTCGCCCTCCCTCAAAGGGATGCCAGCCTTTTATTTAGAGATGAAGTTGC  
TTCTTTGTATTGACCCTAAGGAAGCGGCCACAATTGACAGGGACACCG  
TCTTCGCCATTGGTGAGCCATCTTTTAACTTAGAAAAGCTCTTGGAAGCG  
TTTGTCTTCTGGATGTTACTGTTTTTTTTCCCCCTGTTTTCTCTCTG  
TACCCGTGCTCTTCTTAACAGTTTCTGCATGTTGATGTATATTTCAAG  
GGAAAGAGATCATTAAACACCATGTGCTTGGTGCTTGAAATGTTTATTAAT  
TTTGAGCGCGCGCCGTCTGGAACCTGGGGGCCCACTGGC

>Sequence 562

AGAAACATTGTGAAGCAAATAGGGCCAGTCAAAATGGCCCATGATACCG  
TAAAAAAGGGCCGCGTTTGTCTGGCGTTTTTTTTCCAATAGGGCTCCC  
TGCTCCCTGAAAGTCAATCAACTAAAAAATTCGGACCGCCTCAA  
AGGTTTCACTAGGGTGTGCCGAAAAACCCCGTACCAGGGAAGTATTTAA  
TGATACCCAGGGCGTTTTTCCCCCTTGGTAAGCTTCCCTTCGTTGCG  
GCTTCTTCCCTTGTTCGAAACCCCTTGGCCGCTTACCCGGAATAACC  
CTGTTCCCGGCTTTTTTCTCCATTTTCGGGGAAAGCCTTGGGCGGCTT  
TCTTCATTAGCCTCACG

>Sequence 563

GCNNAGCCCGGGGNGATCCNATCTAGNTTCTNAGNAGNCNNGGCCGNN  
CCCGGGGCCAGNGTAACNCGGGNNGGGGCCCGGAAAGGTTGGGAAAA  
AGAAAAAAGGGTTTTCTTAAAGTTGGGGCTTGGGAGGGGGTAATTTCC  
CCCCAAAAGGAGAGACCGGGGGGCCCCGGGCCAAAACGCGGGGGGGGG  
GGGGGAAACCCTCCCAAATTTTGCGCCCTAATAGAGGGGGGGCGGTAT  
TTAACCCGGCCGCTTAATGGGGCCCCGGGTTTTTAAAAACGGTGGGAAC  
TGGGAAAAAACCCTGGGGGGGTTCGCCAAATTTAAAAAGGCCTTGGGAAG  
AAATACCCCTCTTTTGCCTGGGGTGGGGGGAATAAAAAAAGGGGGCCC  
CCCACAAAAGGCGCTTTTACAAAAAATTTGGCCCCCTCTTAATTGGGA  
GAAGGGGGGGCCCCCTTTTTTGGGCGGAATATAAAAAGGGCGGGGGGG  
GGGGGGTGGGGTTTTTCCCCCAACCGGGAGGGCGCGTTATTTTTTTGTG  
GGGGGGCTTATTACGGAGCCTTTTNTNNNNGTGTTTTTTCCCCCTCT  
TTTTTTTGTGGGAGGGAGC

>Sequence 564

AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGC  
ACACACACACACAGATGTATGCACGCACACACACTCTCACTCCTAGACTG  
CTAAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCTGGCCCGGGCG

>Sequence 565

NGGATTGGAGAATCCGCGNGGCGGTTGGNNGCAATTACTAGACCTCNGA  
CCNCGGCACTAAGCANCGNACCCCTGAANAGANTGTTTCATCCNNCCCTCC  
CCNNGNAGAAACNCGCGCCANGAGTTTCAAGNGGAGGAAGAAGCGACT  
GCGCAAGCNGAAGCGCAAAAGAAGAAAGANGAGGCAGAGGNCCAAGNAAA  
CCGNAGCNNGNNGCACCGNGGAGGCTTTGTTTTTTAGGTTTTGAANGC  
CAGACGCTCCTTATGAAAGTACCAAGAAGTGGGAAGCGGGGTGAGCTGCT  
GAAGATTTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGGCC  
TCATACCAAGGCCTAGGGCGGGTATGAAGTGTGGGGCGGGGTCTATAC  
ATTCTGAGATTCTGGGAAAGGGGCTCAAAGATGT

>Sequence 566 -

TCGAGTACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACG  
CATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCA  
GTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAG  
GGAGCTGCTTTGCTGAGAGTCTCTGTCTCTGCATCTGGATGAGTGCAT  
TTCTTTTGTGTGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAAC  
AAAACGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCCTC  
GGTGAAGTGGGCTGCTGGCACCATTGACCCAGAGAGCAGTATCTTTATTGA

Table 2

GGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTAC  
TCCTGCTGACTG

>Sequence 567

TGGATTGGGCCCTNCGCGGNGGCGGTTGANGGCNTTTCGNNGCCCCNCAC  
CANNNNAAGGNCGAGGGNNCCCTGGANGANTGGTTANTCGGCCCCCCCC  
CGGGCNCNGCAGGCCGNCANNANCGTTGANGCNCGCGGGGCGCNGCCCC  
TGAAAACCCCGNACCNGCCCGGGCGGCTGCNCNAGAACNAGNGGANCCCC  
CGGGCGGCAGGAANNCGAGAGCAAGTTTTTCTTTTTTGGTTTTCCCGAGG  
GGGGGCCCTTTCAAAAAAAATGTCCCCCAGGGAGGGGGAGGGCGCG  
CTTTTTTTTTTACAACGGCACAGCCGNNCCCCGGGGGAAANNNGGAACCGC  
GCACAAANCCACACAACAGACGAGCCGGGAGCACAAGGGGAAAGCCCGG  
GGGGGCCAACGAGGGAGCCAACCCCCACCAAGG

>Sequence 568

GCGATTGGAGCTACACCGCGGNGGCGGTTTCGGGCGAGACNNCTCTTGNC  
CATCTTCTCCCGCTGCTGAAATTTNCTTGGCGGGCGCTTTAACCCGAGGA  
CCCCTCCCCCGCGTACGCTGGATAGCCTTTTTTCCAGAAAGAGAGAGTA  
GCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTG  
TCAGCTTCAGGAATCCCCCGGTACCTGCCCTTTTCTTTTTT

>Sequence 569

GCGCTTTGGAGCNACTCCCGCGGNGGCGGCTCGAGNGACAATTACAACC  
CCGNNNAANCCAAGGGNNNAGGGNANCAAGCTGCTGNGATNNACTAATAC  
ACAAACCCAGACAGCAGNAAGGNCAGAAGAACCTTGAGAACAGCAGAA  
GCAACACCGCAGAACNCNGAAGGCNGAGAACACAAGNCAAANACANNNA  
CNAAAAACAACGCNGAGAGAACNNGGAAAAAATTTCTTTTTTTAGATG  
TCCACAAAAAAGGACATGTAAAGGGGAAGGTCAAGTTGTTGAGACAGCTA  
CTTTATTCTTGGGATGACTGNGGAGGTGGTGGAGATGAGCCTTGTGTC  
AGATTTCCGTTTCGTAGTTCACGAGTCGTTGACCCACAAGGTACCTGCCCG

>Sequence 570

GCGATCGGAGCAACCCGCGGNGGCGGTTGANGNCCGACAGCCGANGAAA  
GAAAAAGGGAGCCAGGCCCATTTCCAGCCGATTAANCCGNGGGGGGGAA  
CGGGGNNNAACCCGGGGGAAAATTTAAACCCAAGAGGGGAAAACCCAGAA  
AGGCCANGGGGCGGGGAAACCCAACCCAGGGGGGAAAAAACCCGGCCC  
CCCCGAAAAAACCCCCCCCCCTTTTTTAATTTTTTGGGGGGGGGGCCCC  
CCAAAAAACCCCCCCCCCGGGGAAAAAACCTCCAAAAAAAACCC  
CCCCCCCCCCCCCTTTTTTGGGGGGGGGAAAAAAAACCCCAAGGGG  
GGCCCCCCCCG

>Sequence 571

NGGCTAGGAGCACACCGCGGGCGCTGGGGCCAAACAACGTGTCTGTAAGAG  
GGACCTCTCATGGTTACAGGCTTTGACAACCCAGAATCAAACCTGGAGAAC  
ATTCCGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCTGGGCTGAAATG  
GAATGTGCAAATGTAGCCCAGCCTGGTCCTTGGGTGTTGCCAGTTGATTG  
ATGACTGGGAGCCAAAGTGGCATTTTCTTTGACCTAAACGGGCGATGATG  
AAATAAATCGAGCGGCCCGCCGGCAGGTACATCTGTGAATGTGAATGCC  
AAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTCATGAAGGAAATGGGACA  
TTTGAGTGTGGCGCGTGCAGGTGCAATGAAGGGCGTGTTGGTAGACATTG  
TGAATGCAGCACAGATGAAGTTAACAG

>Sequence 572

GGCGTTTTGNNGNCNACACCAGCGGNNNGGCGTTTCGNTGAGNGATCNGNCG  
GCCGNGNNNCNACCCGCGGNNCCNNTTACTGNGGGCTTTGAGGCNCC  
CGCCACGGAAAAAGNNGGCCCCGAGCCAGAGCTTTTGCAGCCCNNGNGAG  
GGCGNNGGCCCCGAGGCAANGGAAAGNNGGGANGNAAAACGAAGNACAGGAGC  
AGANNNGAAGAANNACAAAGNGAANNNGNGCTTTTCAGTTTTTTAGAGAG  
TGACCACANAGCCTCTACTTCCTCTGATAAAAAATGTTGGGAAAAACCTG  
AATTAAGGAAGACTCATGCAACTTGTTTTCTGGCAATGAAAGCAGCAAA  
TTAGAAAATGAGTCCAAACTATTGTCATTAAACACTGATAAACTTTATG  
TCA

Table 2

## &gt;Sequence 573

CCCCAGAAAAAAGGCCCTGGGGCCACCCAGANAGAACTCAGGG  
GACAACCACGCGGCGGCGCCCGGGCAGGAACANAGCCCTCAGGGGG  
GNCGGAAACCCCGCANAGGACAGGACANAAAGGAAAACACAAAAGCGCAA  
GCCGGACACACACAGGACAGCGAAGGGCAACGAGACCCAACGCCGGAC  
ACAAGCCAAAACACAAAAACGAGAACAGAGACCACGGGACGGAAGCCAA  
AACGACAAAGGGGGAGACTGCAGCCACAACAAGACGGGCGGGCTCGGCGC  
CCGCAAAGGAGCGCCGCGCGCGGCCGAAGAACGCCCCGCCGCC  
GCCGGCGGCGACACACAGCAAAAACAACACCGGCACGCACCAAGGGGG  
AGAAACAGCCGCCCCGCGGAGACGGGGGCGCCCGCACACCAAAACACC  
AAGACAG

## &gt;Sequence 574

## &gt;Sequence 575

## &gt;Sequence 576

NGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCC  
TCTCTCCCTACTGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGA  
AACCATGAAGAGCCTGATCCTTCTTGCCATCC

## &gt;Sequence 577

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG  
AGCTCGGCGAGCGAGAGGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCC  
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG  
GATGATGTCTTCTTAGTGTTCCCTTGCAATTTTGGGACAGAATGGAATCTC  
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGA  
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGT  
CTTCTGATGTCATATCATTTCACTGTCTAGGCTACAACC

## &gt;Sequence 578

GCGATTGGAGCTCCACGCGGTGGCCCCGCCGGCAGGTACCTCACAACGA  
GTTCACTCAGTAGCAGAAGGATCTTCTCTTGTTCCTGATGATTTCAAG  
GTCCTCACAGTCTTGATAATCTGGTTCTTCCCGAACTCCCAAATATCTA  
TGGAGAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCA  
TTAAACATGTCCATGTATTGCGAAGTCTGAGGAACTCAAGCTCCTCCAG  
TCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTTG  
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATC  
TTAGAAAGGGCATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCT  
CGGCCGCTCTAGAN

## &gt;Sequence 579

NGGAATTGGAGCTTACTGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGG  
GTTTCGATTCAATTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGT  
TGGCAGGAGGAAGAATGAGTCTACTTTGGAGACAATTAAGTCATGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTGGCTACATAGACATCTTCTCATG  
TATTGTTACTAGAACAACTTGTATAGGGTTTTATGGTTTGGGGAAAACAT  
TTTTAAAAATGGACTTATCTCTATTATACAGAGTTATAATATAAAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTACACTGTAATCCTGT  
TGAAGAACTTTTCTATTTAAGCTTATAGGATGAAAATATATAATTAAAG  
TCTTCTGATCATAGCTT

## &gt;Sequence 580

AGGTACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGA  
TCTGAGTGGCCTTTTCTGCACCCCTCCCTTCTTCTCTTTGAATGGAATT  
AAACCCCAATTTGGAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTT  
CTTTTCTTCCCTCCAGTTTATGTTTCTTTTATTAATAAAAGAAAATAGT  
GCATGGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGAT  
GGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAG  
TACCTGCCCG

## &gt;Sequence 581

CACTCGGCACTCTCGGTTCTCTGCTATTTTAATTGTATTTTGTATAATAA

Table 2

CAATACGTATTTTACTACATTCCTTTAATGTACATAGATATCATATACTT  
ATTTATTCAATTAANTTATATTATGGTTTAGTAGTGAGCTC

>Sequence 582

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ACCTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTT  
CAAGCTGCTGTCGGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGA  
ATTCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCAT  
TACACTATTGTGCACATTAAGCCAATTTTCTGATCATCACATACTTGTG  
TAACTGCTGCTGGGGGCATATCTAAGCTTTACGT

>Sequence 583

GCGCTAGGAGTACTCGCGNGGCGGTTAGGGCTCTACCGGACCNCNGACC  
CTCCNGGAACCGAAAAGGCTGGNGCGGGTTTCANCCAGGNCNCACTGANN  
GNCGGACCACANGAGNCAAACCTTAGGNCNAGCNCAGAGAAAGCCCGAGAC  
AGCAGGGCAAAGCGGCNNGCGCCCCGGNNGGAACANCGCCAGCCNCCTC  
ANAANCCANNNCCAGACAAGCTTTTCATTTTTTTTTCAAATCCGACATCTA  
CTCCAACATACATGATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGA  
GATGAAATGGTAAGTCGGGCTGCAGCATCTCTGTTCAAAATATACACCAA  
TTTCTGTTTCTCAATGGCACTAATCATAACGGCTCGCCCTTGGGATCCA  
CAGCTAAGAAGTGGCCAGGAACGA

>Sequence 584

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TACAACATTTGTTTAATAAATGCAACTAACAAAGCTACACAAGACTTAGA  
TATTGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTC  
TACTACCCTGGCCAAGAAAGCATTTTACCTCCTGCGCTTTCCTTCCTG  
TGTGCTTGTGGTTGGTTCTTTCTTCTCAGGCTTTCTTATTCTGATGCTGA  
GATAGTTCTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCT  
GTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCTCCAAC  
CATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACAT  
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>Sequence 585

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TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTCCCTGC  
CTAGACCCACCTCC

>Sequence 586

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CGNNGNANGCNNNCAGAGNCACANCATTTTGGNCGAAANAGGAGCCCA  
CACAGAGGAAGGNGAGGAGGCCNGCAGGNACCNCGGCCGCNCAAGAACN  
AGNGGANCCCCGGGGCGGCAGGAATTTAANCTTTCTTAGGGGTTCCGNG  
GACCNCCCGGGGGGAGACGGNACCCAGCCCCGCNCCCGGGAGGGAGGGN  
NAACNGCGCGCNNGCGNAANCANGGGCANAGCCGNNCCCGGGGAAAA  
NGNNANCCGCNCACAANNCCACACAACAAACGAGCCGGGAGCA

>Sequence 587

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AGGCAGCTGTAGGCGTTTTAATTGGAAATAAGCATTCTGAGATAATGATA  
ATAGCAGTGTAGAAAAATGAAGCTAAAAAAATTCAAAGTGTGAGAATCC  
TCTGTCTTCTGGGATTTTTATTTTAAATCATCTCCTCCACAGAGAACAA  
GCAGNACTTTNTTTTTTTTTTTTTTTTTTGGGGTTTATTTTATGCACAA  
AGAGCCATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAA  
GGAAGATCACTTAGTCCAACCTAATGAAACCAATATCCTTCGCATACT

>Sequence 588

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Table 2

GNNCGGGACAAGAACCGNGAAGGGTTGATGGACAGGGAAGAGACCAACGA  
CTGGATCCTTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACC  
TGGTCTATGAATCAGACCAAATCAAGGTTTTTTTGCTGTCCAAGGAGGAG  
ATCGCTGACAAGTATGACTTATTTGTTGGCAGCCAGGCCGAGATTTTGG  
GGAGGCCTTAGTACCT

>Sequence 589

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GANCAGACTNGCAGCCGACCAAGTTATGNGGGGATTTAGACAAAANCCCC  
GANNNCACCNNTNCCACTNTNNGAGGACTTTGTCCAGGGTCTCTGGTCTAC  
CGATGTCAAAGCAAATCAGCACAGCATCCGAATCAGGGTAAGAGAGGGGG  
CGGACATTGT CATAGTAAGGAGAATCCGAATTTTTCCACAGGCTCAACTC  
TATCTTTGTGTGTGCTGATTTCAAACTGGCCGTGTAATTCTCAAACACTG  
TAGGAACGTAATTCTCGGGGAAGCAGTCCTTGCGGAAGACATGGAGCAGC  
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>Sequence 590

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CGAAGCGCCGANCACCNCGAGACCCACCTTTTTCANAAACAAAAGGCCCA  
AGCCGGAACANCCCCNGGACCNNGACANNNGGACNANNNCNGNGNNN  
AANNNGGGCCGAGNGAACAACCATTTANATTTTTTTTCGTGTTTGNNGAGC  
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CCCGCCTTTTT

>Sequence 591

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GCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGCTTTATCAAGCAGA  
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TAGCAGGAGTTGGGGAGGTATTTTAACAAGGCACATTATCATCTCCCCC  
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>Sequence 592

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GCAATTCCTCCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGCATGAGC  
CACCATACTGGCCACTTCTTCATTCTTGTGGCTTTGCGTCCCCGATT  
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TCCTCCTGTCTTAAGTCTTTGGCCCAAAGTGTCGGAAGGGCCCCATAAGA  
GGGGGGGCCACCCACGTTTTGTGGGACAAAAATGTTTTTTTTTTTGGG  
GCCCCCCCCGTTCTATTAATAAGGGGAGAGCCCTCGTTTTCTTTCCGGGG  
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TCCATCTATATATATTTTCATATTTTTCCCCCCT

>Sequence 593

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CCAGGGGCCACCCACACCCCTTTTTTGGGGGGGGGCCCCCCCCCTCCCCAA  
CTCGGGGGACCCCTTTTGTTCCECCCTTCTAATAGAGTCCCCCCCCCGG  
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>Sequence 594

TGTAGAGGATTGACGGGGGCGCCGGGTCAGGTGCGATTCTGGATGACAAA  
GAAGATGCTTACTTCACAGAAATTCGAAATTTCAATTGGGAACAGCAACCA  
TGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAATGGCAGTCATT

Table 2

TTAAAGATGAAAAGGCTTTGTCGAGCGGCCGCCCGGGCAGGTACTTTNTT  
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GCCCATGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAAGG  
GCAGTCTCAAAAACCCAGCTCAAAATACGACACTAACATGATGAACATGC  
ATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACT  
GTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGACCTATT  
CAATANGGTAACCACTTATCA

>Sequence 595

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ATGTAATACAAGCGATACACAATATTTGAAGTGCAATGGCTTATTAAAGA  
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TTAATTGATTGGTGTCCAAAGTAAACATTTGGGTGTGCATATCTCTAAAA  
GTTTAGTAAAAATTGGCCAATTATGCNCAAAAAATTTTTTAAAAATAGGGA  
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CCTTACTTACCAATAAAAAAGAAATTATTTGAAACCTTCATTTTTTTCTT  
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TGGTACAATTGGGAAAACAAGTTAAGCTTAATATTTTATGGAAGTTATTT  
TATTTGTTAATGGAGGAAAAAATGTGCAGTTTTTAAACTCTTTGGGT  
AAAGAAGTCTCCAATTATAGTCTGCCAAGGGAGTGGGTTTTAAATGAGAA  
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AAG

>Sequence 596

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TATTTAACCTGAAAAAAAGTTGCTAAAAATCCAATATAAATGTAAATATC  
TTTAACTTGCTTAACCCAGCTATCCCCAAAACAGTGTAGTGGGGCAAAAT  
GTTCAAAAGAAAAATCATCCAGTGCACGTAGATGGGCACCAAGAAGCTAA  
GCTTCCCTGGCGCCTACCCTGGG

>Sequence 597

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GGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTGG  
TGGCCAATACAAGTCATTGCCAGACAGTCCCTGGAGGCACAGAACAGCCC  
AGACCCAGCCAAGCTCTAGGAACTCACGGGTCCCAGGGAGTTCTAAACCC  
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>Sequence 598

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GACGTGACTCTGGACCCAGACACGGCCTACCCAGCCTGATCCTCTCTGA  
TAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACA  
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ATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTG  
GACCATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCT  
CAGCCCCCAGAATGGATTCTGGGCAGTGTCTTTGTGGTATGGGAAAGAA  
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TCACCGGGGGGGGATTTTTTTTGGGCCATGATGCTGGGGAGGGCCTCCTTT  
ACAAAGTGG



Table 2

## &gt;Sequence 599

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GCCAGAAGATACAAAGACAGACCATGCCAGTTGAATGCTGTCTTCCAAGA  
ACAGAAGAAAATGATCCAGGCCAGGAATCCATAACACTGGAGGATGTGG  
CTGTGGACTTCACTTGGGAGGAGTGGCAACTCCTGGGCGCTGCTCAGAAG  
GACCTGTACCGGGACGTGATGTTGGAGAACTACAGCAACCTGGTGGCAGT  
GGGGTATCAAGCCAGCAAACCGGATGCACTCTTCAAGTTGGAACAAGGGG  
AACAACCGTGGACAATTGAAGATGGAATCCACAGTGGAGCCTGTTTCAGAC  
ATATGGGAAGGCCCTTCATGCCCCTGGAACGCTTGCCAAGGGAAAGCCTG  
GGGGACAAAAGGAAACCATGTGATGGAC

## &gt;Sequence 600

GTTTGTGCGCACACGCTCCGATGGCCCAGGTGACCAATGGCCGCAGGCT  
CCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTCACCGCGCTTCCCAGGG  
GGCCCCGGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCC  
TGGCTCCCAGCCCCTCCTCCCTGGCGCCATGGAGCCCTCCCCACGAGCCC  
AGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCCTCCTCGT  
GGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCC  
ACCCAACCTCCCTCGCCGGGCCAGGCCTGCCTGCCATGAACATGGGCCCAG  
GAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACTTCGATCCCCTACTG  
CTTCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGGAGGTGGGCCC  
CCTGGAACACCCATCATGCCTAGCCCTGGAGATTCCACCAACTGCAGCGA  
AAACATGTGCACTATCATGAACCT

## &gt;Sequence 601

TTTTGAGTACTAAGCTCGACGCGTAAAAAATAATAAAATAAAAAATCT  
GTGCAATAATTTAAATGTGCTCCCAGGAATAGACACAAATGTTTTGAGT  
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ATTTAAATCTGAAAGTCAGAGGTGATTATTGATAGTACTTTTGTATTTG  
ATATGGACAGTTTATTTCATTTGCATACAGTTATTGACTTTTTCCCAGCTG  
ATTAAAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGC  
TACATTTTTATGATATTGTCTCTTTTCTGNTTTTTTTTTCTTTTTTTC  
TTTAGCTATTTTACTTAAGCATAATAGCCACAATAGGACATATAAAAGAT  
TATAAATACAGAGCTTTATTATCTTGACGTCTTGGGTCTTTAAGTATAT  
ACTTTTCTGAAAGGTATCCATTTTGTAGGCTTGGGTTTCTTATGAACATA  
CGATGTTT

## &gt;Sequence 602

GACCACATTCTATATATCATACGAATGAAATCGATTTTGTCTACCGTAA  
CATGTACCTCATACTGTATCTATAATTCTCACGTATCAATGATCTAATAC  
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CACCTCATCTGCGTGGGCGGCCAAGATCGGAGCAGCGACGCTGCGGGCT  
ACCCCATGCCACCCATGACCTGTAGGGACCACCTCTAGATGCCTACTCG  
ACTCAAGGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCA  
GGTGGCAAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGAT  
TCGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGT  
TTTGATGCATCTACTCAAACCACCCATGAACTCACCATTTCCAAAAAAC  
TTAATTGGCTGCATAAATCGGGCGCCAAGGCCGCCAACATTTAAAGAGAA  
CCCGCCAGATGTTCCGGGGGGCCAGGATCAAAAAAGCCAAACCCAGGGG  
AAGGGCTCCTCTGGAAGGGCGGGTACAAAACACTGGCTCTTGCTGGCAA  
TATTAGATCTGGCCCAAGTATTCTAAATAAAGGCGGGCTTTCTCTCTGA  
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## &gt;Sequence 603

TACATCTACTTCTGTTTCATATCGTTAATACTATCTATTCTTATTTTCATCT  
AGACTAATTATTTTATATTCTATTTACTTTACTATACATATATATTATCA  
TATTTATATAATTTGACTCACCTCTAATCATTTCATATTTTTTCTTATTAG  
TATGATGGGCGGCCGCCAGCGTCCGGGAAAAATTACCTGTCTTGACTGC



Table 2

CATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTTAAAC  
CGTAATCATATCTTTTCTATCTATCTGAGGCACTGGTGAATAAAAAA  
CCTGTATATTTTACTTTTGTGAGATAGTCTTGCCGCATCTTGCAAGTT  
GCAGAGATGGTGGAGCTAGAAAAAAGCCCTTTTCAGTTT  
GTGCACTGTGTATGGTCCGTGTAGATTGATGCAGAATTTTCTGAAATGAA  
ATGTTTGTGTTAGACCGAGAATCATACCGGGTAAAGCAGGAAATGACAAAG  
CTTGCTTTTCTGGTATGTTTCTAGGATGTATTGTGACTTTTAACTGTTA  
TATTANATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGG  
GTTTTACAAAGCTTTAGACCCTTTTACCTTTTCAGCCACCCCAAAGTGCC  
TTGATATTTTAGAGTCAGGCATTGGTTATACATGTGTAGTTCCAAAGCAC  
AT

>Sequence 604

TCGTATCGTAACTTATTTAATTGTTATATTAACATATACTCTATCTTATA  
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TTCGTATTAATTAATTTTACTATCTTGTGATGGGGCGACACGCGTCCGA  
GACAATACAAAGTTACATTTTGGACCATATTAAACTGCAAGAAGACAG  
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TAGACATGTGTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGA  
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TGTAACAGAAAACAATGTTTAAACACAAGCAGATCTGTTGTATGTAATAA  
GTAACACAGAGTTTTTAAACAAATTTAATTATTTAGCTTTATTGAAGT  
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TTTTACACCAGAATTAGCAGTGCCCTTTTCTTTTGGTACATACTGGAT  
TGGAACCTTTTCTTACTGGGTACCTGGGACCACTTTTATGTTAGTTT  
TGATGCATAATCTTTGGAATCCCTTTTATACAAAACCTTAAATTGTTGTG  
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>Sequence 605

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TACACGTTATCAAGTCAAATCCAAACGAGAGTCTCTCTCCACAACG  
GAGCCATGATACAATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAA  
ATCCCCCAGGAAAGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCT  
CATTAATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGC  
AGCCTTAAGAGTGAAGTATCACCACATCCCAGGTCTGCAACCTTCTTAGG  
CTCATGTTGATCCACTAAATTTTAAACGAACCTGGTACCTGCCCC

>Sequence 606

AAAGAATTGAGCTACCGCGGTGGCGGCCGGGTACTTAAATAAATTACTGG  
CAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACTTG  
TTGCCAATTGGGTAATTTTCATTAGTTGTTTGTGTTTGGATTTGAAA  
CCTGGAAATACAGTAAAATTTGACTGTTTAAATGTTGGCCAAAAA  
AAAAAAAAAAAAAGGTCCGCGGGGGCGGAGGTGAGGACAAAGATGGTGC  
CACCGGTGCAGGTCTCTCCGCTCATCAAGCT

>Sequence 607

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TAATCTTATTATTATTACTATTCTTTTATTATTCCTATTTTATAT  
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AGAAGAAGGGGGCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAATT  
GGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAGACTGT  
TCCAAAAACAGTGGATAATTTTGTGGCCTTAGCTACAGGAGAGAAAGGAT  
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>Sequence 608

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TCTGCCGATCGACTTCCGCCTCGGGCAGTCAACATACTGCCAAGGAAATC

Table 2

TGATGTGGAAAGGAAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCC  
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AAAGTGGAAAAATGTGCGATGATTTCAAGCTTTTTAGATCAGCAAGCCAT  
CCTGTTTGTGGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTC  
TGGTCCATGCACGCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGTA  
CTGCCCCG

>Sequence 609

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CATGTGCCGCTAACTGACCGCGTTGCCATTGGCGACCTGGACTCTGAACT  
CAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGA  
TCAGCTGTATTTGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTATGAA  
ACCGAGTGAAAGGAGAAAAATGTTAGATTCTTTATTATTTTATTATTTAT  
ATGGAAAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTC  
GTCCGTGACTGTCTTCTCAGGTCTGTGGCCTGTGATTTCCAGTCACCCCT  
TGTAAGTTACTGACAGGAAATTGACTGGACTGTCATTTGTGTTGAAGTCTA  
GGAGGGAAATGGGCCATTTTAATTGTATGAATTTTGGTCATAAGTAAGGA  
CTTTTTTTATGTCACCCATATTAGATATATGTACCTCGGCCG

>Sequence 610

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ACCTCTTACTTGAAGGTTTTTAATATGTTTTGATAACTTTAATAACTTCA  
GGTGATGTCTGTATAATTTTTAAAGTGCAGCTCTCTCTAACAAATGTGCC  
CTACAACTCCTGATTAAACGGCGTCTTGAAGGTTCAAAAAAAAAAAAAA  
AAAAAAAAAGGTACCTGCCCCG

>Sequence 611

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ATTTTTTTTTCTTTTTTAGTTTCGACTCACGTGTGGCGGTGAGGTACTT  
ATGAGAAATTTGGCATGCCTTTGCTAATATTTACTGCAGAGTGTAATCCAT  
GTTTGATAGACATTATAGTAATGTTTGAGTAGGGTATTGTAATATTCT  
TAGTGGTCTATACGGTAATAATATCTAATACAGTAAATACCTGCCTTGC  
CTTTTTCCCTGGATAGTTCTGTAATATTACGAAATTGTTGTACTAACCTC  
CGAGCAATGTGATCCTCAATTTGGTGTGGACTTAGGCTTCGCCCTTTTCC  
ATGTGGGTGCAATAGAGCTAATTATTGGCTCAAGTTTCTGTAGGTATAGA  
GATTCTTTCTCTACCAAGTAGACATTATAGTCTCAGGGGGACGTTCTCTT  
CTCTCGTGTGGGGTAACAAGGTTCACTAGAGGCCACCTTATAATTTTTCC  
CTTCCCTGGCCTTCAAACCCCTTGTAAGAAAGGCCTTTGTCTACCATTAAA  
TAGGTTAACCATGGCTAGAGGTTTCATTTTCTTCCCAAACAAGTATTCTT  
ATGACTTTCTAAGTTTTAATAAACAACCTTCTTCCCTTTTCAATATAAT  
GAAATGGTCGTAATAAGGAGGTGAATAAAATATTTCCCAACATTATAGTC  
CTTAAGCCAACCTTGTATAAACCTCAGTATTGGTTCTTAAGAAAGCAAAT  
GTCTTTGGTAGGTGAACCTTACCAATAGTTTGGTTCTTAGGGATGGATAT  
TCTCTTGGAAGGGCCTAGGCAAGTAACCCAACAAAGGGAATGGGCCCCC  
CTAAATTTCTTGGGTTCTTGGAGCGAGGTCTTGGCTATAGCCCCCG

>Sequence 612

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ATGGCCATCTACTCTTGCCTTAAACTTTTCTCACCACACCCACCTTCCC  
ACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCTCAA  
GCTTCTCATGCAGTGCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTC  
TAGAACACAGTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGC  
CAAGTGTTATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACC  
ACCTTTTGTAAATGGTTTGGTTTCTCACTGTATCTTCTTTCTTATAATT  
AATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCTTCAATATTTT  
ACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC

Table 2

ATTTTAAAAATGGTTGCCAACTTACA

>Sequence 613

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AAGNCCACTTTGANGAGGCCATCAAAACGAACGGTTATACCCCNCCCACA  
NNNCACNCNGAGGGGGANGTTTTACAAGNNCACCCGGNCCCCGCCTGGGG  
AAAGGAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTATTTAC  
TTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGGCCTT  
GATGGGCTTCACACAGTACCTGCCCC

>Sequence 614

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ACCATAATTTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGA  
AGGAAGGGTGTATTACGGAAAAAGCTAACGGCACGACGTTATTTTTTCC  
CCCACAATCTTTCATACAGGAATAACAAATTGAACTTGCAAAAGCACTA  
AAACATCACATGTAAACCCAGCTAACAGAAAAATACATTCACAAGCGTTG  
TTGGTGGTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACA  
GAAGGGAGACTTTGGCACGGCTCATTTTTTTCAGTCTATAGTTACATGAA  
GTTTACAATTAGGTTGCCCTATAAAAAGGAACCCCTTATTCAATACCCCA  
ATACCAAATAAACCTTTTCTTTCACATACTTAAAAAGAAACCGGGTTAA  
CTAAAAAGAGGAAAGAAGAAGGCC

>Sequence 615

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AAGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTCCA  
TCACCTGCCTTTGTACTATCAACTCTTATTAGATTAAAAGGAAATAGACT  
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AGAATGTATGTGAAAGACACCAAAGGCCTCTCCTGTATGGACACAAAATC  
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>Sequence 616

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CAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACTCTAGTTTCTTCT  
ATTTTCATCATCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
TTCTCTACTTTCACATCAGTTTGAAGAATGCATTTCTCTTGTGGTATTCT  
GTTTTTTGAACCTTACTTCATTGGAGAAGCCCTTGATTTTTCTTCCTTA  
TACCAGATCTGGCTTCACGAAAGCTGCATTTAGGTACCTGCCCC

>Sequence 617

GTGCAAGGCCCTCGCTATACTAATTTTATAAAAAAAACTTTCACAAATT  
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GGGTATTTGGAGTTATATAAGGTTCCCAAAAAGGCATATTCCTTTCAAAA  
TTTTCAAAATAAAGAATTTTTTTTACTGGATTTTAAATGGGGGTGTGCCA  
ACTCATTAAAGGATTTTATAATGGGTGGGGCCCCCGGGCCCGGCTTCGAA  
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>Sequence 618

CAGCGTGCAGCTCACCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTG  
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TGGGAGAAGAAGAATAAAATTGTTTATCCTCCACAACTGCCTGGAGATCC  
TGAGACCAGCAGAAATCTACCACTGTGGAAGACAAATAAAATATAGCAAA  
GACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCA  
GGCCTTGGCTCAGTTGGAATTCAATGACAAAAAAGGGGCCAAAAATAATTA  
AAGAGTTCTTTTAGAAGCACAAAGATATGGCAGTGAGAGACCATAACGTG  
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Table 2

AGAAGGTTTATTGCCATTATTTTGTGAAGTTGGTGGAAAGGGCCCCACCT  
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ACTCCACAGTGTATATATTTTGGCATTATTTTCTAAAAATAAACAAAAA  
TGGAAGCCAAAAAATAACCTGCCTCGGCGGGCGTCTAGAA  
CTAAGGAATCCCCGGGCTGAAGAATTCGATATAAGCTTATGGAACCGCGA  
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TTGGGTAATATGGG

>Sequence 619

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CAGCCATGGGGGATACAAAGATCTATAAGGCACAAGACCCTCAGTCTTGT  
AGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGGACAATGGT  
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CATAGGAANGAAAACACGATACTTTACCTTAACACNNGACTTGGAGGGAC  
CTTCAAAAAACATGTGATGGTGAGGAAATCCAGTTTTAAAGTCTTGATT  
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AACCTATGAAATTTTCTCAAATTAGCTTTCAGACACACAAAAAATTGC  
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TAGTATCTGAGTGAAGTACCTGCCCC

>Sequence 620

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GACATAGATATGTATTTATAAAAAGATAGATGGAAAGAGAAGAAATTAAC  
TTAATTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAAACACCAAATTA  
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TGCAGGTTGAGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCC  
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>Sequence 621

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>Sequence 622

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TATTTTAACATTCAAAATTGGGATTTCCCAATGTGACACATCATGAATGC  
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TTTTAAATGCTTTGCCGTCCTTTAGTTAAAAAATTTTTAGGACTTTGG  
CCCGGCTTGAAACTTTTTTAAAGAACGGGGAGAAAACCTCGTGTGCAT  
CCAAGTAAAGTTTTTTATCTAAAGAAGGTTCTTCATTGCTTTTCTGACA  
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>Sequence 623

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CCTATAGTAATTAATAAATTTAAAAAAGTTTTTAAAGCTGGCTGTTTTCT  
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Table 2

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CCTTCCTTGTTGNGAGCAAGTAAAACTCCAAAAAAGAGGTGTTGTACCT

>Sequence 624

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TTCGGAAGTGAAGCCATGATTAAGAGGGA

>Sequence 625

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TATAAACAGCTGTTTAAGGATATCCTTATCTAAATTTCTGCCAATGAGGA  
CCAATCGATTTGTTCTCTCAGTGTCATCCTTCCAGCTCACTGAGTCTCTC  
ACATAGAGCTCATCCCGCGTACCT

>Sequence 626

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CTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTGC  
AGATGTA

>Sequence 627

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TTAATACCGTATCTTCTAAATTTGAAATATAATTCTGTTTGTGACCTGTT  
TTAAATGAACCAACCAAAATCATACTTTTCTTTGAATTTAGCAACCTAG.  
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CTAAATTTTGTGATTCTATAAAACACATCATCAATAAAATAGTGGCAAAA  
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GCCGTCTACCGGGGATGACCTGGAAAAAATTTTTTAAACCCCGGTTTTT  
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CACAATTTTTT

>Sequence 628

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TGCGCTTCTGTTCTCCGCGCCCCTGTGCTGCTCCGACTCACATACTCGT  
GCAGAACCGGTCTGAGCCTCTCCGCGCAGAAGTGCCCGGAGCATGGCGGT  
ACCT

>Sequence 629

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TGTTGCCATAACTGTTTCGAGATAAAATCTATGATAAAGTTCTGGGTAACA  
CGTGCCATCAGTGTCGACAAAAGACCATCGACACCAAGACAGTGTGTGCA  
ACAGTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGT  
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>Sequence 630

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TTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTA  
CAGAATCCCTTTTTGCTGTAATTGCACCAAGTTTAAAGCCTCTGGACAGA  
GCAGATCGTTTAAACTTTGTTTTCTTAAAGCTTACAGTGTGTTGGCTA  
ATTCTCTCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGG  
CAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTA  
CATGGAGAAATTAGGGGCTGATTTTTTAAACTGTGTGAGATATTAACCAG  
CCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTACACCGATTAA  
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Table 2

CATTTAAATATAAAAAATTTAAAGTTAAAACTCTAGCCCTTCAGTGAAGG  
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 AAAGAAAAAAGGAAAAGGAAGGAATAAAGAAATAAAGGGAGTAAAAAGA  
 AAGGAAAGAAAAAAGGGACAAAAGAAAAAATATGTTTGGCCAGTATAAA  
 TACGTTACATATAAAATGCATCTGATTACATTAACAAGGAAAAGAAATA  
 CGAGGATGGAGCATCGGTGAGGAAAAAACACGTTTCTCATTTACACCTAT  
 AGGAATAAACACAACACTN

>Sequence 631

AGGTCATCAGCTTGCCTCAAGTCTGGAAAGAAATTGGCTTGGGCTCATCA  
 AGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGTAACTCATGTGG  
 CCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACA  
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 TTGCAACGAATCTTTTATATATCTGCTCTCTCCCTTACGATCTGTGACAA  
 TTGAGAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACA  
 CTTACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTGCCATCG  
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>Sequence 632

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 ACACAACCTTTCACAGAGAGTGTGTCCGCACACATTCACCATCAGCTTCAA  
 GGAGGGGTTCCGATATTTGGTGGTCTTACACCGAGGGCAACCCTGATCGT  
 CCATGGCGGTTTCCCTCTACAGACTCTCGCAGGGCGCCTGTTTCAGCCAG  
 AGCCACCTACAAGCCCCCTCCCGCGTACCACCACACTGTCCCAAATTAC  
 CTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTTCCCAATCCTCAAAA  
 GGAATGAAGAAAAACCAAAGAGCAAACCTCAAAAGATGATTTTTACCATAA  
 ACCTCAAATGTGGCTTAACAAGTACCTGCCCGGGCGGC

>Sequence 633

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 CTTGA

>Sequence 634

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 GGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATAC  
 AAATTCATAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAA  
 GCAAATATGTTAAGCAGTTTCTTTTCTGCTGCTAAATTACAGTTAGAC  
 ACTTCAGTATCTTCTCTTACATGTGTATATAAATTAGTAAGAACCTGCA  
 TCCAAAGCAATGTAGTGTGTATGTATCTATATATATTTATTCTAACTC  
 AGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTTAGTTTGCCTCAT  
 CTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATT  
 TTACAGGCACAATTTTCTGGCTGTAGTCCCTGGGGCATTTATTTGCTTGC  
 CTCCATGGGATGCTGTTAGAACAATTGTTAGCCGGCAAGAGAAGAAAGGC  
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 CTCCACTTTCATTTAGCATGAAATAAAAAATAATTGGAAATG

>Sequence 635

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 GAGGTTATTTTCAAGACACACACTTGCAAGTAATCTTTCTATAGAAATGG  
 CCACAGCATTATAATATTCAAAATATGGAAGATTGACAGTCTGAGGATTT  
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Table 2

CTGAGAAATGTCAATCCTTTCAACTCTAGAGAATGATGCNATGAAGTCGG  
CTTTGAGCCCCACTGCCGCTTGC CGTGT TTNCCATTTGCCTTCTGCATT  
CGCACCTTAATGCAGATGTACCTTGCCG

>Sequence 636

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CAGATGTGTGTTATGT CATCTATAATATTAAC TTTTTTCATTTTAATAT  
ATTTATGTTAATATCATTATAAGTCGACGATGACTCACGCGGTGGCGGCC  
GAGGTACTAAAGGGCAAGGTTCA CCACTACAAAAAGGAAGTTGTCTAAAA  
GCAAGAATTCAATTAACGCTGGGTAAGAAAAAGTCAAAACACTAATGAGTT  
GTCCATGAAGCCAAC TGCTAAGAACGCGCTCAACTATACGCGACATGAAG  
ACACTACGCACGAAGCCTTACTTGGCGAGTCTGAATTTCTATTAATAAG  
GGCAGAGTGAGGGGAACAAAGAGCTACTTCCGTAACATTTTAGTATCCA  
GATAGTACCTGCCCCG

>Sequence 637

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TGGAATTGAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAG  
TCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAA  
ATTCTTCCCGAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGA  
ATCCCTCAATAAGTGCCAGATATTTCTTCAAAACCTGTCTCAAGAGAAG  
ACCAATGTT CATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCAT  
TGTGCAAATCTAACTTCATGGCCTCGCTGGCTGTATTCCTTATATGATGC  
TGAGACCTTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAA  
ATCTAAAAGATGATTCTCTTCTTCAAATCCAATAGATTTTCTACAGAG  
TAGCTGCTTGCTTCTATTGATGATGTATTGAGAATTCAGCTCCTTT

>Sequence 638

TGTCGATGACTCACCGGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGAAA  
ACTAAACCTTCAATTTACTGTGAACATCTTCTGACTGTGGCTTCCAGATGC  
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GAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCTGAAAT  
TGTTCTTTCTTAAC TTTTGCATTAAAATCACATTTATTTTATAAAATAAT  
GAAA  
AAAAAAAAAAAAAAAAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG  
AGCCCCCNCTAAAAAAAAAGGGTTTAAAAAATCTCCCTCTTATTGGG  
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>Sequence 639

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ATCCCATCAGATTTGTAGATCTTAACCAGGCAGTCACCGAGGCCTCGGAA  
GTCCCTTTCAGCTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACCT

>Sequence 640

TGGAGACGATCGAGCTCACCGCGGTGGCGGCCCGCCCGGCAGGACGCGGGG  
GCTGTCTCACCGGTGAGACCTGGAAGCGGGCGAGTCTCGTGCTGTGTCGG  
ACCTGCAGTCCCTGGCCTTCCGCCACCATGGAGTACCT

>Sequence 641

TGAGATTGAGTCGAGTTCACCGCGGTGGCGGCCCGCCCGGCAGGACGCGG  
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TTCAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTGCCTCAT  
GGGAAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTGGAA  
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GTCCTGGTGCTCCAACAGTTTGATTTTAATGTGGATAAAGCCGTGCAAGC  
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Table 2

## &gt;Sequence 642

GCCGAGATGACTCCCCGGGGCGGCCGGGACTTGGAGAATATTTCCACAA  
TAGCCGATGACTTGTTCTTGTGACAAGAGAAAAGTTCTTTGGCTGTTACC  
CTCAATGATAGTGAGGTCCATTGCCGTCTATTAATGGAGATGATTCCAT  
CTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGCTTTCTCTGCG  
CTGCTACCAGCCCTGTACAGGTCCCAGGCTCTACCTCCCCGCGTACCT  
GCCCC

## &gt;Sequence 643

GTTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCT  
GTGCTAAACCAAATGAATGGAAAGCGCCAAAAGTGATTTTATACCAAGGG  
TCCATCCATACAAATAAACAAAATCCTATCCTCTTCTTTCTATATTGTGT  
TTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTTATTCATTCA  
ATAGGACAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATC  
CCAAATTTTATGCTTATTTTGGTTTAGGGCTATCAATTTTCTGACATAT  
TAACATAGGCAGGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAA  
ATGTCTTGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGT  
TCCCCATCTCTTCTTTGCTTCAAACCCCCATGCAAGTTCTTCTTTTTTC  
GGGCAAGGCTGTGAATATTCAACCTCCTTTTTGGCTTTTACAAAGGTGTGG  
CAGGCAACTGCTTTGGCAATTTTACACCAAGCTCTCGAGTAGCTAGCTG  
GTTGCTGCGGTC

## &gt;Sequence 644

TGACGACGTGGAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTC  
TCCAAGCAAGCAGTGAGGTGTGCATTGTTAGAGGTGCACCGGGAAGGGAG  
CTTGGTTTCGGACCCCAGGACATCCTGTCCGCAAGCAGCTGCTACTTCTT  
GGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCTCTCTGGACT  
CATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTCC  
ATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTGCGATGTC  
ATCACGTTCTATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGAC  
TTTTGAAGGAAGCTGCAAAATCAGCAACACCTGGTAATTGTTCTGGCCAA  
AGATCTGGTGAGGCACGGTCAAGTTTTTCAAACCTTAGCAAAGATGCTTC  
CAGATCTGTCCCGTCTGTGGGAGACGCCATCTTCCAACCCATGTCACGTC  
CCCCGTAACCTGCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAGG

## &gt;Sequence 645

TTAGCGTGAGCTCACCGGGTGGCCGGCCCGCCGGGCAGGTACTTCAGGGA  
GGCCTATATATTGGCACCCAAGGAATGCCAGGACTGCCACCTGCTGCTCC  
AGCGTTAGCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTTGTCTA  
TTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGG  
CCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCT  
ACAAGAAACAAAGTCATGAGAAATGCCAGGCTTCCTGTTACACCCAAAGA  
CTGCTGGCCCTCCTACTCTATCC

## &gt;Sequence 646

TCCACTTCCCTTTCAATTTTGTAGTGATTATTGTTATTAATATCTCTTT  
ATATTTTGACATTATTTTTTAAATTATATGTTAGTTATTCACTTCTTATC  
TATTATTTCTTAGTAGTGTGACTCACGGGTGGCGGCCGAGGTACCGGCC  
AAGCCTGGTCCCCTTCTTGTGGGCACTGTGTATGGGCGGAGAAAATCCA  
GCTTGTCTTGTCTGATGACGCAAAGGTCAATGTTGCTTCCGGAGCCCAGG  
TCGTTGAAGATGCCAGCTGCGATGGCTTCGCTCACCAGATTCTAGGCTTC  
CTTCTCCTCCATGTCTGGCCTAAACTTATCTTCAAATACAGACCATTGCT  
GCCAAGGAGACCAGAACCCATGGTGACATAAGGCAACTTATCAGTTTGAT  
CCATGAGGATAGATGCTGTAGAGGTGAGGTCTCAGTTACATCTACTTCCC  
CCTAAACTAGGGCTGCACCAATGTAACCTTGATACCTGAAAAGCATCTG  
CTTCAGCATCCGATTGGCTGTCAAACTCTGGGAAGACGGCCAGTGGAGA  
GGGAGTGGAGCTCCAGGTTGGAAGAAATGAGCTGGGTTGTATGTCTGTG  
TCTGCAGCTGTCCAGTACCACAACATTAAATATTAGGAGATATGAAATG  
TATTTT

## &gt;Sequence 647



Table 2

GGACGAAGTCGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT  
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ATTAAAGCTTTTTTTTAAATTGGAACACTCAGGATATTGGGATAATTAA  
TTAGGCAATGATTCAAAGATGTTTGGTTTTAAATTCAAAACCTCCAAA  
GGTCAAAACTCTGGAAAAAATTTTTGGTTTCCCCCTCCACGTTTTTTT  
TTTTAACCCCTTAAAAAAAAAAGGGGCTTCACCCCTTAAAAAAAAAATTTT  
TTTTTTTTTGTGCAACCTCTTTTTTTTTCGGGGGGTTTTAAAAAAGGGG  
GAAAAAAAGGGGGGTTCTCTCTCTAAAAAAGAGGGGG  
GGGGAGAGGGAAAAACAAAAAATCTCTCCCTTTTTCTTTTTTTTG  
TGGGTATAACCACGAGAAAAATATAATTTTGTGTTTATTGTAATCAACAA  
CCCCACCACTCACTTATTTTATGTTTTTTTCCACTATCAAAACAACGCTG  
TTGTTTGTGG

>Sequence 648

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CCACAACCCCAAGGGTGTAAACACGGGTGGGGGGGGGAAAAAAGG  
GGGGCAAAGGGGCCCCCCCCCTTTTCCCGGGGGGAGAAAAAAGGGGG  
CCCCCCCCCGGAGACCCGGGGGGGTAAAAAAGGGGACCCCCCGG  
GGGGGGGGGAATCTATATAAAGTTTTATCCCCCCCCCCCCCGGGGGGG  
GGGCCCCCCCCCTTTTTTTTCCCTTTTTTGGGGGGGAAAAAGACCGCGC  
CGGAAAAAATATTTTTTGGGGGGAAAAAATATTTTCAAAAA  
AATCCCCCAAGGGGGG

>Sequence 649

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TCATTAGGAACACGATTACAGAGCTTCTGCTGTGCAGTAGGGGGCATCAA  
TAGTTCATTTTCTTTTTATTGTCTGCTACCATTCATTGTATGGATTCAA  
CCTAGTCTGTTTATTCATTCTCCAGGCTTCCACCAGGCCATCTCTTC  
ACTTCGGGGGCACCT

>Sequence 650

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GGTAAGAAACAGTTGATTAACACCTGTGTTCTGGCAGGTGGGATCAGCA  
ATATGTAATCCAACCTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAG  
AAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATG  
AATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTC  
CAAGGGAAGCAGAAAGAGTGTTTTGAAGGAATCATAGCCTTCTTCAGTG  
CACTAGATAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGAT  
GTTGTCACTGTGCCATCAGGTGAACCTCGTCATGTGGAAGGCACCATTA  
TCTACACATTGTGTTTGCCATCAAATTGGACTATGAACTAGGCAGAGAAC  
TCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTA  
AGTCCCTCAGCATTGCTCTTCTTCTGTCTGTAACAAGAN

>Sequence 651

GAGAATGAGCTCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGT  
GTCCAGCCCCCTTCTCTTCTGGAATTAACATTGGCTCCACCTTCCAG  
CAATTGCTGGACAGGTCAACATCTTCGTTTTGAACAGCTTTAATCAGCA  
AGTGATTGTCTTCCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCC  
TCTGGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTG  
CTACCACTTTTAGCCTTTTCTTGAGAAAATGCAAAATTTATCTCCTAGCA  
CTTAATCAAAGAAGCTTTGAGTGTAATTTGGGATTCTCTGGCAACAGAGC  
AGCAGTATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGC  
TCAACTCAGACGTCTCAATTATTCCTTTGGCAGCCGCAAAGCCTGGAAGA  
CTGCTTGCAGCCGAGCAGTTTCTCTGCTGCCTCCGCGTACCAGTGAG

Table 2

GAAGGAAAGAGCATTCTCCTTTAGGGCAGCAATCACAAN

>Sequence 652

GGAGATGGGTTGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG  
GGAGGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGGAGGGGCTA  
CAAATGCTTGACTCAGTGATGCAGAACCTTTCAGAGTTAGCTGGAAGCCA  
CAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGAGGAGAC  
CCCTTCCCTCTTGTGGGGTTTGGATCCTGTGTTTCTAGCCT

>Sequence 653

TTTTGCCGCTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTG  
AACTGAGGAATTATAGATAAACCTTAGGTCAAATCATTTGCAATTGCAT  
TGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTTTGTCCTA  
GTTTTTGTCTTTCATAGGTCAAACTGGCAATATTCTCTTGTCTGCAAGA  
TAAAGTGTCTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGA  
TACAATTTCTGTCTCATCAGTTTCACATGTTTGTGTCAGTGAAGAAAA  
TGCATCTACTGTTTATAGCTCCCAAGGAGACCCCAATCCTTTTTTTCTT  
TTGAGATGGAGTCTTGCTCTTGTGCCCAGGCTGGAGAGCAGTAGCGCGA  
TCTCAGCTCACTGCAACCCCACTCCTGGGTTCAAGTGATTCTCCTGCC  
TCAGCCTCCCCAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCCGGGT  
AAATTTGGTTTTAGGAAAAACGGGTTTTCCCTTTTGGCCCGCGGTTTTT

>Sequence 654

GTGTGGTTCGAGCTCACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAA  
GTAAGTTCTCCATCCCATAAAGCCATTTAAATTCATTAGAAAAATGTCCT  
TACCTCTTAAATGTGAATTCATCTGTTAAGCTAGGGGTGACACACGTCA  
TTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCAGAATACTCCTTGGT  
CAATTGTAGGTATTCTTTTTGGTTTAAATTTTGGCAATGTAATTAAGGAA  
TGGTATGTCATTTTTAAATTTGTATTTCTTTCATTACAAATAAGATTGT  
TATGTCAGTATTGTTATTGGCTTTTCGTATTCCTCTTAACGTGAACCGTC  
TGTTTATTGTTTTACCTGTTTTCGTTTTAGCAAGTAGTACCTGCCCG

>Sequence 655

GATGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGG  
CCATGGACTGGAAAGAAGTTCTTCGTCGGCGCCTAGCGACGCCCAACACC  
TGTCCAAACAAAAAAGTGAACAAGAATTAAGATGAAGAAATGGA  
TTTATTTACAAATATTACTCCGAATGGAAAGGAGGTAGAAAAACACAA  
ATGAATTCTATAAGACCATTCCCCGGTTTTATTATAGGCTGCCTGCTGAA  
GATGAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCT  
ACAAAGAAAAAGCAGAGAACTGTTAGATAATGAAGAATTACAGAACTTAT  
GGTTTTTGTCTGGACAAACACCAGACACCACCTATGATTGGAGAGGAAGCG  
ATGATCAATTACGAAAACTTTTTGAAGGGTGGTGAAAAAGCTGGAGCAAA  
AGGCAAGCAATTTTTCACAACAAAAGTCTTTGCTAAATCCTTCATACAG  
ATTCATATGGAAAGATTTTTCATCATGCAGTTCTTTAA

>Sequence 656

GGAGGGAGTAGACTCACCGGGTGGCGGCCGCCCGGGCTGGTACGCCACAA  
GGCATTTAATGCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAGAGGA  
CGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAGAAGCACAAAGTTTG  
GTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTT  
TTCGTGCTCTGCTGTGTAAGACATGAGATATATTACAGATTTTCAAAC  
AGGTGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG  
ATGGAGTGAGGAGATTTGGATGAATGAACGCTAAGATGGCCAGACGCACC  
TCTTGGATCGTAACTCTGCAGGCTGGGATTCCAGAGCTGCAAACAACCAC  
TGAATTTCGATCTGTAAACCTGTTGTCATTTGACGTTTGCAGGCAGGCATC  
AACATTTACATTGAGATTCAATAGACGCTACTACTACAAAGGAGCTTTAT  
TGTTGCAGCTTAAATGGTTGCTGCGGGAACACTGAAGGGTGAACTGAC  
TTTTTT

>Sequence 657

GGTTGTGGATGACTCCCCGGGTGGCGGCCGGGTACATTCCAATGAAGAATT  
TCTTCATTCTGATCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCT

Table 2

TTACTCTTAAGCCTCGAA

&gt;Sequence 658

CCTTCTGCTACGTCTGTATTCTATTCTTGTGAAATGCTCTTTTTTAATA  
TACTTGCTGTCGTATTTTACGTGTTTTATTTCAGTTTTGGTTTATACTGT  
GGCTATGGTAATTGAAATGGGGGCGATGGAGCTCACGGGTGGCGGCCGAN  
GTACCTNGTGGGCNTTAGGTCAATGTTGTTATACACTTTCACAAAAGATT  
GTATCTTTGATCTCTTGGCGATCTTCTTCTTGCCCATGGCAGCTGTCACT  
TTGCGGGGGTAGCGGTCAATTCAGCCACCAGAGCATGGCTGTAGGGGCG  
ATCTGAGGTGCCATCATCAATGTTCTTCACGATGACAGCTTTGCGTCCGG  
AGTAGCGTCCAGCCAGGACAAGCACCACCTTCCCAGG

&gt;Sequence 659

GGAGTGAGCTCACCGGGTGGCGGCCGCCGGGCTGGTGCGCCACAAGGCA  
TTTAATGCCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAGAGGACGGG  
ACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGCACAAAGTTTGGTCT  
GTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTTTCG  
TGTCTGTCTGTAAAAGACATCAGATATATTACAGATTTTCAAACAGGT  
GAGCATCTTTTACGAGCTGGGCAGGTGGGGAGTGCGGTGGTTTTGATGG  
AGTGAGGAGATTTGGTTGAATGAACGCTAAGATGGCCAGACGCACCTGTT  
CGATCTCAACTCTGCAGCCTGGGATTCCAGAGCTGCAAAACAACCACTGAA  
TTCGATCTGTAAACCTGTTGTCAATTTGACGTTTTTCAGGCAGGCATGAACA  
TTTACATTGTAATTCAATAGACGCTACTACTACAAAGGAGCTTTATTGTT  
CCAGCTTAATATGGTTGCTGCGGCAACACTGAAAGATGAAACTGACTTTT  
TT

&gt;Sequence 660

GAGTGAGCTCACCGGGTGGCGGCCGCCGGGCGAGGTACTATGACCTGAAG  
AGGCAGAGGCCATCACTGTTGGTCCGGTCTCCACCTGGGGAAACTGAGGT  
TGCACAGTGTCTCTGTGGTGACGAGCAGGGCTTCATCCAGTGCCTCTGTC  
CCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAGCAACAGGTGA  
GACTGGAGCCAGCTGAAAACCTGGGAGACCGACCCAGCCAACAAACAATGT  
CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAA  
GTGCTCCTGGGACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTT  
AACCATTAAACACAATCAGGAAGCAACAGCCATGCATTCTGGGAAAGGAAC  
TTCAGTGTTGTGTGGCTCAGTCTCCAGACCTAACTTTCCTTTTGGTACCT

&gt;Sequence 661

GGCGTGGGATCGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAGAC  
TTTTTTCTCACCATGAATGTCACCCCAGAGGTCAAGAGTCGTGGGATGAA  
GTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCC  
T

&gt;Sequence 662

GCGTGAGGTTGAGCTCCCCGCGGTGGCGGCCGCCGGGCGAGGTACTTTTT  
TT  
TTTGGACAAAACAAACGA  
GTTTTTTTAATTTATTTAGGGGGAAGGAGGGGTGTCTTTGGATATACCAC  
AGCGAGG

&gt;Sequence 663

GTAGATGGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACTTGTGGAAGG  
TAGTGACCAGCACAGCCAGCGCCTGCTCCAGAGAACTGCACATCA

&gt;Sequence 664

TATGCTACGGGGGCGGCGCCGGCAGGTACGCGGGGGCGGTATCTGTATCG  
GGCCTTACTGGCTTCAAGAGCCGAATTCCTTCCAAGCACCCACCAGGGG  
GACCCCAATTAAGGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACC  
TTAAAATGCCTGGGAAGATGGTCGTGATCCTTGAGCCTCAAATATACTT  
TGGATAATGTTTGCAGCTTCTCAAGCTTTTAAAATCGAGACCACCCAGAC  
ATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCA  
CCACAGGCTGTGAGTCCCCATTTTCTCTTGGAGAACCCAGATAGATAGT  
CCACTTGATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTGACAAAT

Table 2

GATCCTGTTAGTTTTGGGGACGAACACTCTTAACCTGTGCACACAACTT  
GTGATCTAGGAAATTTGGAAAAGAATTCAGGGGAGATCTACTTTTTTCT  
AAAGATCAAAGATTATTTTGAGTGCCCTT

>Sequence 665

GGATAGATTGAGCTCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCC  
TGGAGCTCCTGTAATAAGAATGTGGTTGGAAGATGCAAACCTGTGGATGAT  
CATCACCTCCATTTTCTAGGTGTCATTACAGTGATCATATAGGCTTAT  
GTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAAATGAAATACTTGAA  
TTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTG  
TGTTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATG  
TGTACCT

>Sequence 666

GATGACTACGGGTGGCGGCCCGCCGGGCAGGTTTAATCTCAGGTCTCCC  
TATACACTTCTCAGCCTCAGCACCTAACCTCACACAACACTCCAGTATT  
GGATGCAGTCAATCTTGATAACATTTTTTGAATGTCCAATGTGCAAAGC  
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAACTCTTGCTCTC  
AAAGATG

>Sequence 667

TACGAGATTGAGCTGAGTTGGCGGCCGCGGAGGTAAGAGAGTCGGCTT  
TGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGCGGAATAAAACAGGAG  
CTAGCAAGATGTCTCATCTGAGCTTCCCAAGTGCCCAACTTATCTGAGGCC  
TGGGGCTGAAGCCAGCGCTGACGGAT

>Sequence 668

TGAGGACTCACGGGTGGCGGCCCGCCGGGCAGGTAATTTTTTTTTTTTT  
TTTTCTGGTCGAAAAATTTTGTGGAATTTTAAAGAAAANGAAAGGCAA  
AGTAGCACTCAGATGGCCTTTTTTGTAAAGTGAAGTCAACCTAATACTC  
TGGTGCTTACTTTGCAAACTTTTTCCATAAGTCAAGTATTAGTGTTAACA  
ATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAAC  
CAGCAGATTCCCAGAACTTTATGTAATTTGGGAAAAGTAAATATACAAC  
AGACATATCCCTGCCCTGATTAAGAGGGTAGATAAAAAACAAAACATAAAA  
CAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAAATACAACAGAAT  
ATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAGGGGTTCTGCTTTG  
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAAACAAATCTGTCAGTCCA  
AAAACGAAGATATTTCAATCACCGCTGACTACTGAATGGGAAAC

>Sequence 669

GGAGGACTGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGTAGGATCAA  
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GCCATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCTGAAGTG  
GAAGAACAGGAGAAGCAACTGACGACAGATGCTGCCCCGATTGGTGCAGA  
TGCAGCCCAGGTGGACTGAGTCACTGCCTTGCTGCCCCATCCCCATCCC  
ATCATGAGAAGCTAGGCATTACCATTCCTGTCTAGTAGGGATACATAGTT  
GGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAATTTCTCCAT  
ATCGTTTCCTAGTTACCTAATCTCTGCACAAATTTGTGTGTTACAGAAG  
CAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAATCAG  
CANAGAGGAGCGAGAATAGCAGAGTGGGAGTATGATGCGACTGGTGGCTA  
AACAGAGAAGAGAGGGATTTACGATCACTGGAATGGATGGGTG

>Sequence 670

TTATGACTCACGGGTGGCGGCCCGCCGGGCAGGACATTCTTTTTTTTTT  
TTTAACTTTTAGGGTCTTGGCCTATTGCATACTAAAGGGCAAAGGCTT  
AGAGATATCAAAGGGGCTAATTTTTTATTGACAGACCATGGCGATGTAAA  
ATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCATTTGCAAAAC  
GAAAATCTTTCAATTGGCACCCCTTACTGGATGGCCCCAGAAAGTTGCAGCA  
GTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGG  
AATAACAGCAATTGAACTTGGAGAACTTCAGCCACCTATGTTTGGATCTC  
CACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCC  
AAAACATAAAGGACAAAACAAAATGGGTCATCAACATTCCATAATTTTTGT

Table 2

CAAAATAAGCACTAATCAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCG  
CTTAGAACTGANTGGATTCCCCGGCTGCAGGATTGATATCAGCT

>Sequence 671

GTCGATGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCA  
TGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCT  
CTCCCTGTCTCCGGGTAAATGAGTGCGA

>Sequence 672

GATGACGATCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTG  
TTCTTTCTTTCTAATAAACTTTCTTTTTTCGAACCTATACTGTCTTCTGT  
AAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCC  
AGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATAC  
CCTTCCACTTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAAC  
TAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGG  
TAAATTTTGAACCAAGGGAAATCATTTAAGAAGTGCTGGTATTTTCAA  
ATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGG  
ATGGAGACATGCTTATTTTATTTAACTCCCCNNNNNAAAAAATAAAAA  
AAAGTACCTGCCCC

>Sequence 673

TGCGTGTTGGATTGAGCTCCCCGCGGTGGCGGCCGTCCCTCTTAATACTG  
GCCTCAGTTCCGAAAACCAACAAAATAGAACCGCGGTCTTATCCATTAT  
TCCTAGCTGCGGTATCCAGGCGGCTCGGGCCTGCTTTGAACACTCTAATT  
TTTTCAAAGTAAACGCTTCGGGCCCCGCGGGACACTCAGCTCCGCGTACC  
T

>Sequence 674

GCGCGTGA CTACCGGGGGCGGCGAGACTGAGCCACACAGTGTCGGGATG  
GAAGTCTGCATCTGAGGTTGCTCAGTGTCCTCGGTCAATTCATTTACACATT  
TTAACTTGCAATAAAGAGCTGTTCTTTTCTGTGGCCTAGACTCTTTTCAC  
TGATCTCAAAATAAACTGGTTTTTTTCAAAAAAAAAAAAAACAAAAACAAA  
AAAAACACAAAAGCTGCATGTCTAAAATTACATGGAGTTAGTGCTATTCT  
TTTTCCCTTTTTCGCAACTTACACAGCATTTTAAACACCTTTTTTTT  
CTAGTTTTTTTGTTCGGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCT  
AACCCAGCTTACTGTGGGACATAGGAAAACCTCAGTAGAAATACCTTTGGT  
GATCTTGTTGAGTTTAAAGTCTGATCTTGATCTTAAACTCAGTAAGCCACT  
ATCTGCAATTTTGTACCTGCCCC

>Sequence 675

GTTGATGTAGAGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGCT  
GTAGTGGCTTCGTCTTCGGTTTTCTCTTCCTTCGCTAACGCCTCCCGG  
TCTCGTCAGCCTCCCGC

>Sequence 676

TTTTTGTTTGTATCGAGCTACCGCGGTGGCGGCCGCGAGAGCACAGAT  
GACCACGCCATCGTCCAGTATGAGTGGGCACTGCTGCAGGGGGACCCGTC  
AGTGGACATGAAGGTAACGCATGTTGTCACTGC

>Sequence 677

TGAGTGAGCTACCGGGTGGCGGCCGCCCGGCGAGGACGCGGGAAGGATT  
CTGTAGTATGTAGCGTGTTTCTTAGGTAAAGTCTTTTTTGCTACTGAAA  
GGGAAATGGTCTCTAAACACTGGTCACTGTAGCAGGTAAACACTACTCTA  
ACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTTGCCTTAAAGCTGTT  
TTTTATGCTGTAAAAACCAAAATGGGTTTGGTTCCCTGATAGGTTTAAAT  
TAAAATTTGCCTTATAGTTTTCTTTCCCTCGGGCCAGATACCCCGGGA  
GGTTTTCCCTTTTTTCCGGGTTTTAAAAAAGGGTTTTTTTTTAAACGGGGG  
CCCCGGGTCCCCACCTTTTTTTTGGATTTTTCGGCGGGGCCGTTTTAAAAA  
TAGGGGATCCCCCCCCCGGGAGGAGATTTGATTTAATAAATTTTTTCCCC  
CCCCCTTCGCCTTAGGGAGGGGGGGGGGGCCCCCCCCCTTTTTTTTTTTT  
TTTAGAAGAATAACCCCGGCCCCCTCAATATTATCCGGGGAATTTTTTT  
TTC

>Sequence 678

Table 2

GAGAGTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTGTGGCAGACG  
TCGATGATCGAGTTCAAGGCTGTCTCCAGCTCGGCCAACATGA

>Sequence 679

TGAGTAGTCGAGCTACCGGGTGGCGGCCGCGGCCGAGGTAAGTGTGGTGT  
GTGATCGGAACGTGTGATCCCCCTCTTCTCATCACTGCTGCTCCAAGTGG  
ATTTATTACTCCGGGAATGGTCTGAGGGGAAAACCAATGTGTTTAGCGT  
GCCTGCCACCTGCGCTGAGCACAATATCCTGCAATCTGACCTGCCCC  
TCCTGCACAGGAAACCACTTCCCCCTCCAATTGATGGTTCAAACACTGC  
CACCGCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAAC  
AACTTATTTTTTAGGATTTAACGACAACCGGTTGAAAAAACGGTAGGGT  
GTCATGCTCACAGAGAATAAAGATTTGTAGAAAAGGTGCTGAACTGCCAA  
GGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCA  
CTGAACGACACCAAGCACCCCATGCACTTCTGGGGCCAACTTGGCCCCCT  
GGAGAAAGACACCTGAATTTGGCATGCAGTCTACTTCN

>Sequence 680

TGAGATGTGATTGAGCTCCCCGCGGTGGCGGCCGCGGTACAAGGGGAGGTA  
AGATGGGAGCTCCACTCCTTGGACCACAGCTGGTTCTGGACCGTATCCC  
CATGAATCTGTTTGAACGTAAGGAGGAAGTCAAAAAAGTTCTTATTTAGG  
GTTTCTTTGAGATGTGGGGCCACTTCCATTCCCACCGGCACAGGTAGGC  
ACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATGCATG  
TCAACCGGGGCGAGGCACTCTGAAATTCCCGTTTTGGAGAGGAATTTGTTA  
CATTTTCAGGATGGATGCCTCCACGTAAAATCTTGAATGAGTTCCCTGAT  
GGAGGCAATCTTGAAAAACCAATTTAGGCATGTTTCTTGGCCGTGTCAT  
TTGCATTCTCTGGAGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACA  
CACATGGAAAAGATGCGCTCGTACCTGCCCC

>Sequence 681

CTCCTCCACATGTATTTAATTTATTTATTTATATATTTATATATAATTC  
TACTAAAATTTTTATACTATATTGATCATATATAAAATATGTTTATATAT  
ATACTTTTTATTCTATAAAAAAGAGTGTAGGAACTCTCGGGTGGCGGCCGA  
GGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTGAGGAAATTTTAAACA  
CTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCTGCT  
TCACCTTCTGCTGCTTTTGGGACTTTTTATGAGCTAGTTAGCTAAGGACA  
AGACCCTGAACCCATTTTTCTACTGGGAGAGGAAAACCAAGGCTTCTC  
AGCTTTGGCTTGGAACCTCTGGAGTTTCTATGGCTTCCATCAGGGCTCCA  
GGACCTTGATAAGTGGCCTCAGGCAGGAGGAGATCGGGAGCGGATGGGAG  
AGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAAACACGTTGGCGTAT  
GATGATTTGAGGAACTGGACGTAGTTCTGCATGCTGCGGTTGGAGCTTTC  
GGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTTTGGTAGCGGC  
GGTCCGATTATAACGGGTTTCGCCGCAGATGGTTAAATTC

>Sequence 682

GATGGGATTGAGCTACCGCGGTGGCGGCCGAGGTAAGTCTCGTTTCAGCT  
GGGCTCTTATGGCCAACCGCTCGGCTTGCGCCCGCCGGGTTCCGGAGAT  
ATGTTGTATTTCGGCTGGGTGAGGGTCTCAGGCAGAGTGCGCAGGCTCGA  
CGGCTTATACTTTGGGAACGACA

>Sequence 683

GACAGTGACAACCGCGGTGGCGGCCGCGGCCGAGGTAAGCGGGATGGCA  
CATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCATAGAAGA  
GCTTATCACCTTTATGATCACGCCCTCATAATCATTTTCTTATCTGCT  
TCCTAGTCTGTATGCCCTTTTCTTAACACTCACAACAAAATACTAAT  
ACTAAGTCTCAGACGCTCAGGAAATAGAAACCGTCTGAACTATTCCTGC  
CGGCATTATTCTAGTCTAAAGGGCCTCCCATCCCTACCCATCTTTTAAA  
AAACAAAAGGGGAAAAGATCCCCCTTCTTTCAAAAAAAAATGTGGCC  
CCAAAGTTTTTTGGCCCCCTCCGGGGCCCTCGGGCCTTTTATAAAAAAGG  
GGACCCCCGCGGTGTGGAGAGAATATTATAAAAGTTTTTTTTCCCCCCCC  
CCCCCGGGGGGGGGCGCCCCCCCCCATTTTTTTTTTTTTTTTATGGGG  
GAAAAAACCCCGCCGAAAAAAAAGAAATATTTTTTG

Table 2

## &gt;Sequence 684

GCGTGACTCACCGGGGCGGGCGGGACCCCATGCAATATATGGCTCTACAA  
TCCTCAGCATGTTAATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTG  
AAGATTTGACGAAGGCGAAGAAGCTGCAACACCTTTCGAACCTTTGGGCT  
CACTCCATTGATACCTCTGATTCTGATGACAAACGCCAATTGCGGTCTG  
CAGGTACGAGGACATTTTGCCCCGCGGCTTGTTGGGGTCTCCTTTACCCA  
TGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTG  
GTGCGAGCTTTTCCTCAGAGTCCCGCAGA

## &gt;Sequence 685

GAAGTGACAGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTGAGATGGAGTTTCGCTCTTGTTGCCAGGCTGGAGTGCAATAGA  
GCGATCCCAGCTCACTACAACCTCCGCTCCCAGGTTCAAGCAATTCTCC  
TGCCTCAGCTTCTGAGTAGCTGGGATTACAGGCATAAGCAACCATGCCC  
AGCTAATTTGGATTTTTAGTAAGATGGGGTTTTTCCATTTTGGCAGGCGG  
GTTTTGACCCCCACCTAAGGGGGGGCACCCCTCTGGGTCCCAAAAAGGG  
GGGTTAATAAGGGGGGGGATTCAATTCCTCCCGGTAAAAAAGGAACC  
CCCTCCCGGGGGTGGTAAATTTTAAATATGTTTTTCCCTCCCCCGGG  
GGGGGGCGCCCCCCCCCTTTATTTTTTTGGGGAGGGGCCCTCCCC  
CCTTTAAAAAAGCAATTTCTTTTGTGGGTGATTATTAACACCCCAA  
ACCCAGCGGGGGG

## &gt;Sequence 686

GTACGACGATTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACTTTT  
TTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAAACAGGAATTCTTCAGACTTTATT  
AAAAAGGCCCTAAGGGGCTCTTATTAAGGATATAAAACCCCAT  
AATTCGGGGCCCCTGGGCTGGGCAGGGTTGATATCCCTTAAAGGGGAGGA  
AGGGGGGGGATGGGGGGTGAACCGGGGACTGGGGAAGAGGACCAGGGGGG  
ACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGGATATGGG  
GGAAAGGGGCCACGGGTTCTACGCAACAACGGGGGAAGGCCGGCGACA  
GTTTTTCCCAAATTCTGGGGGAAGGGGTCCCCT

## &gt;Sequence 687

TGTTGATATCGACTCCCGCGGGCGGGACGCGGGGCTTTACATGGCAACAAG  
TATGGCGGCTGCTAGTGGTAGATTTGAAAGTGCGAAGAGTATCGAAGAGC  
GGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAA  
GCCAATTTTGAAGAAAGAAAGAGCGTAAAGAACTTAAGCGACTTCGGGG  
TGAGGATACATGGATGCTACCTGATGTGAATGAGAGAATTGAACAGTTCT  
CACAGGAACACTTTGTGAAGAAAAAGAAAGAAAGACAAGCTTCTATT  
AAAGAAGGGAAGATTAATCAGTACCTGCCCGGAGT

## &gt;Sequence 688

GACGCGTGAGCTCACCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTT  
TGCCACAAGAGTATACGGAACAAAGGAGACAGGCTCATTTATAATCTGAC  
GCGGCCACCTCCTGCTGCGTTTCGGTTTCCA

## &gt;Sequence 689

TGAGCGTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACAACTGGG  
CACTGGATAGGTAGTTCTTTGGTGGTCAAGGTGGCTCTACCTGTCCTTG  
AGCTCTCGTGTCACTCGCTTGGTGATCCGTCCACACATCAGGCCAATCAG  
GAACAATATACAGATGCTCCCACTGATCACAGAGAGAATGTAGTTCTTAG  
ATGGAGACGTACTTATCTGATGGCAAGATCAGAGAAGCCATCTGCTGGG  
GCCACCTAGCAATTACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGC  
TGGTGGCAGTGCTAGGTCTAATTATCCCTCTCAGTTCCTAGTTTATTTT  
ATGCTTTTTCTTTTGGAGAGGGAGGGCAGGAGATAAGAAAAATCAACACA  
GAGCTACAACTCTTTTCTGGTCATAAACTATACACACGTCTACTGCA  
CAAAATTAGGAATACCAGAAGAGCCAAAGTGGTGCAGTCACCCACAATT  
CTCACAGTGATCACCCTAACACCAGGACC

## &gt;Sequence 690

TGTTGACTGTGACTCCACCGCGGTGGCGGCCGAGTTTGATTCTTGCAGT



Table 2

CCTGAGCGATGGAGCCCCGGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTC  
AGATGCTTGGCTTGTTTTTCAAGAGAACCTTTTTCGATATTCATTGCTCC  
ATCGATTGGATCCAGTCCTTGTTCAAGAAAATTGT

>Sequence 691

GGAGACGGAGCTACCGCGGTGGCGGCCGAGGTACTACAGGAAGAACTA  
GAGGAAACGGGAATTTTCATCCATGTCCTGTGTATCTGCTGGCAACAGGTC  
AGAACGGCCAGTATGTTATTCCTGCAGGCTGCCTAGGGTGCTCTCCTCA  
AACAGATCACCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCA  
GTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGA  
TTACTGTAATTTACACATCCAAATGCAAACTGGAGCTCTGATTGAATTCT  
ACCCTGGGGAGAACTTGATGCTAACCCACAGGTACCTGCCCCG

>Sequence 692

GAGTGAGCTCCACCGCGGTGGCGGCCGAGGTACACCAAATGGTGACATCC  
TTTCACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGA  
AGAATTTTTTGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAAATCTG  
GAGCAGCATGGACCTGTCAGCAACTAAGGAACAAAAGTAATGAAGATTTA  
CACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCT  
AGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGT  
TAGATAAGGTAGTAGATTCCATGGATGCATTAGATAAAGGTTGTCCAGGA  
AAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGAC  
CTGGTGCTTGAAGAAGAGACATTTTTGGAAGATAATTGGGCACAGGTTC  
AAGCAGGGGGGTTATACCTGGGCACCCTAATAAAAGATACAATTGGAAAC  
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>Sequence 693

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TCTATATTAGTGCCGTTTTATTACCTTCTCTCCCTAGTTAAACCTAACCC  
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CGGGTGCG

>Sequence 694

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CTGTGCCTGTTGGTGATTCCAGCACAGACCAGAGTGCCGCGTACCTGCCC  
G

>Sequence 695

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GCAGTTTAGGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCT  
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>Sequence 696

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TTAAAGCCTCTTGCTCTGGAAGGGGGTTTTTGGGCCTTTAAAAAATTTGT  
GCCCCGGAATAATGGGGGAAAAATTTTTTGGCCCCCCCCACCCCGGGGGGGG  
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Table 2

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>Sequence 697

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AACAATTCGGCAAGTTCCAAATGATTCTGATCGCAAATACCTGGAAGATT  
GGGCAAGAGAAGAATTCAGAAGAAACAAACGTGCCACCGAAGAGGATACA  
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>Sequence 698

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GAAGAGAGGGGCAGAGTCTTGCTCTGTCAACCGAGGATGGAGTGCAGCGGC  
GTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC  
TGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCAACCTACATCC  
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ACCTACCTTTTGGTCCATTCTCCAGGGCTTCTTCTGCAGCTTCTGGTTCC  
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>Sequence 700

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>Sequence 701

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GGACTCTCCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTGCT  
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>Sequence 702

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CAAGGCTGGGACAGGATGTGGTTCTGCATCTGCCACAGACGGGGTGGTTC  
TAGA

>Sequence 703

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CTTTGGCCAAAGTACTCTCATTTGGGGATACAGGGGTGAAGTTTCTGTGT  
GAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTACAGCA  
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Table 2

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>Sequence 704

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TCTATTTGGCCGTGACCTTGCTCTGGAGACGATGATATCCCTTCAGCCTG  
AGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTCATAATCACC  
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>Sequence 705

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>Sequence 1082

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ACC

>Sequence 1083

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>Sequence 1084

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CTGTGTCCACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTC  
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TGATGAATGAGTTTCAGCTCATTGCTGGAGTTAGCTGAAGAATGAATAGG  
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>Sequence 1085

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ATAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAAAT  
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Table 2

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>Sequence 1086

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CCCCAGGCTCAAGTGTCAATCCTCCCGCTGAGTAGCTGGAACACACGT  
GCGCACCCTAAACCCAGCTGTTTAATACACCATTTTTAACCCTAAACAT  
TAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACAGACAAG  
CTTACAAGTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTA  
ACTTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACT  
ACAAATTACATATACAATGCCAAAAATATTCAAAAATAACATTTTTTGCA  
CCTTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAG  
AATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACTTCCATGAAAT  
TGAACGCGGGATTCTATGTAAGTGATGACTTGTCAAGGTTCCAGGTGTAT  
CTTAACCTTAACTAAAGAATGCCCTAACTTAGATGGGTTTTGAGCCTATA  
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>Sequence 1087

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TTTTACAGAACAAATGAGCTTTCTTGGCTTTTAACAAAATTATCATTGA  
AAACTACAAAATTAAGATCACCCATAATCCC

>Sequence 1088

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TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA  
GAGTGGTAAGTGTCTTCACATTCTTTAAGCACTAAAGAAAACCTTTTAATT  
AGCTACCTTGCTCCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAG  
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GCCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATT  
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>Sequence 1089

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>Sequence 1090

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CTCAGTTCTGCCACTGTCATTTATATGCTTCCACAATGACATACCAATT  
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ATTAAAAAAT

>Sequence 1091

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GTTTTTCGTTTGTGTTGTTGTTTTAAAAAGGGTCCTTAGTGCCTCTTACTC  
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GTAAGTTCTAGT

>Sequence 1092

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CCTGTGAATATACTAAAACATTGAGTTGTGCACTTTACATGAGTGAATTG  
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>Sequence 1093

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GTCGAGCCACCAACAAGAACAATTTCAACCCGCGTACATGCTAAGAC  
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C

>Sequence 1094

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GTGACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGAT  
TCAATTTATGGGACAATTTGTTATGTGATCTAACAATTTGGCATATAATC  
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TC

>Sequence 1095

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ATACAATTTACACCCTCATCCCCATTTCCAGTCTGATTATACAAGTGCTA  
AGTGGCAGAAAGGTCTGGAATAAATACATCAAAAAGAAGAGGCAAAGCTG  
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AGAAG

>Sequence 1096

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>Sequence 1097

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CGCCCATCTTTATCACCAGAATGAGGAACTCCTGGAAGTTAACTGCACCA  
TCAGTGTGATATCCAATCTTTGAACCAGACGTCTGCACCCTTTTTCTCT  
GATATACTGAGGACACTCGGTCTCTAGCAATTTCTTCAGGTATCCC

>Sequence 1098

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ATGCCAAAAGAAAAATGAGTTTGTAGCTCAAAATTTTAAAGAGGCCTAGC  
CTGCTCAAGATATCCTGTATAAAAAAAAAAAAAAAAAAACTCCTTCCCA  
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>Sequence 1099

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Table 2

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GAGCCTCACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA  
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AGTCTCTGCCCTTTAATGTACC

>Sequence 1100

ATAATTAATAAATATGATATAAAAAATAAATGTAAAAAATAAATTT  
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TTTTTTTCTTAGTAAATCATTTATTTATAGTAATTAACGAACCCCATNTA  
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AACCGGGCCCCGCAAGTGTGAATGGAATCTGCANAATCGCCCTTCGAGCG  
GCCGCCCGGCAGTACTGCAGCACATTACCGCGACTGAGGGTATAACCGTC  
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>Sequence 1101

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>Sequence 1102

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CAACACCATTTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGCG  
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>Sequence 1103

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AACATTTCCAGCAAAATTTTGCTGCTAAGACTATCACTGTAAAGTGAAA  
ATTACAGGGAAAAATGTGATGAATATACCGTAACTCAAAATGTGATATTT  
TCTTAAATCACTCTTTTATGCTTTAGGAACTGGTTGGTCTCCACTTTGA  
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Table 2

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>Sequence 1104

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CTGTTGTCCAAAACCTGCTTATAAAATTTAGCAACTAATTATCACTTTTGA  
CAACTATTTTAATTCTAGAAAATAGGTTTATAAAGATTTTCTTAAAGTGT  
TATCTATCCTTCCAATGACTTATTATAAATTTTGAATGTATTTCTATAG  
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>Sequence 1105

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ACAAAAGTTAAAATTACATGCTGAAACAAAGTTAATGACTTAGGTAACAC  
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>Sequence 1106

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TCAGCTTATAATGAAATCTGTTTGTTGACTTATTAGGACTTTGAATTATT  
TCTTTATTAACCTCTGAGTTTTTTGGATGTATTATTATTAAAGAAAAATG  
CAATCAGGATTTTAAACATGTAAAATCAAATTTTGGATAACTTTAGATGA  
CTTCAGTGAAATTTTCACGTAGTCTGAGTAATAGAATGTTTTGCCACTTA  
GAATAGCATTTGGCACTTAGTAATTTAAAAAATAATTGGCGGAGAATTTA  
ATGGCAGTTTTGGTCACTTGTTATCTAATGACAAATTATAAAGCCTTAAA  
AGGGGTTGGACCACATTTATTTTGAACATAGGTTTGCACACATTTAAGAG  
ATACATGTAGCCAAAATGACTTTTATACCACCGATGGTTTTTTTGGAAATTG  
TAAAAATAATACATTTATATGTGTAAATTGATTTAGAAAATACGCCACATG  
TTTTGTTTCGCGCTTCACACGACTCGCTTCAAACGACGGGTCCTGGCCG  
GGCCGGCCGCTTTAAAGGGGTAAATACTATGCACATGGGGAGACGGTTCT  
TGGAGATCCCGGTCTTTGCGTCATACTCGGTGCACAAGTAGGGCGATACG  
GGATTCATAGGGCAAAATGATACTCGTCTCCACGCTCCCCACCTTACCT  
CCTGT

>Sequence 1107

CCCTTTCGAGCGGTCGTCCGGGCATGTCTGTGAGATGTTACCACTAGTAT  
TTGGAAAAAGAATAAAAATGTGGCCGGGCGTGGTGACACATGCCTGTAAT  
CTAGCCACTTTGGGAGGCCAAGGCAGGAGAATCGCTTGAACCTGGGAGGCG  
GAGGTTGCAGTGAGCCAAGATTGCAGCATTGCACTCCAGCCTGGGCAACA

Table 2

GAGTGAACCTCTGTTTCAGGGTTAAAAAAAAAAAAAAAAAAAAAGTACTTT  
TTTTTTTTTTTTTTTTTTGGTCATTAGTTATTAATTTTACACAGTTAA  
CACTGAAAAATGAATGATATTTAATCATTGTCACTTACTGAGAAGCAAGA  
ACAATGAGTGAGCCCAAAGGAGTCTACTACCATACCTATTAAGTGTAGGG  
AAGGGTTTAAGTATTTTTTACATACTTTTCTTCTGTCAATTGGAAAAACAC  
CCCCCATCTGAAATGGACAGAAGAAAATTTCCAGGTGTTTTACTCTC  
ATCAGAACAGCTTGGGGGCAGTGACCTTCACACTGTTAGCTTGCCCCCAT  
ACTGCTTGAAGGGCACCAGTTAAGAGCTGGTAAAGGGAGTCTCTTTAAAA  
ATACAATTGTGGGAGATCCCACTTCCAAAAGGTATGGACCAATGCTTTTT  
TCCAACAGCAATGAATGGTGGGGCTGAAAACCAAACCTTTACAGGCCCTGG  
CTTAGGCCTGGGGAGGGGAGAACCAGAGCATGATTATTGGGAGTTTGAA  
AGAAATTTTGCCTAAACCCGGGCGAAATGA

>Sequence 1108

CCCTTTCGAGCGGTTTCGTTTGGCATGTATAATGAAATGTCTTTAAAAAA  
AGTTTGTGTGAATTGTGTATGTAATTCTGACAGTAATTCAAAACACAAAA  
TCACACATTTTCCTAACTTCCCATGTTCTGGATCTGGGGACTGCAATAT  
TACAGAAATATGCAAAAAATAAGTTTAGTGCTCAGAGATAAATAATTTTC  
TTATTTCAATGCATCAATGCGCAAAAATTTCAATTCAAAAAAGCCAACCA  
CTGCTATATGCAATAAATAAAACATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAAATGTGTGGCAGTGCACATACATGTGCATATGT  
GTATGCAATGCCTATTTTAGAAAAAAGGTGTCTTGATGAAAATGATTTTG  
AAAATAGTCACTGACACACATTATATACAAAACCTTTTATATAAAAAATT  
AACTATTTTCAATGAAATTCCATGTTTCACTCTATTCTGAGAATTGCA  
AACTGAATCATAAATAGGTCTACTAACGAAATCATGGTTAAGGCAGTATT  
TTTTACAAGGGTTTTCTTTTATATCACATATGTCAATAATACTACTGCA  
GTCAAATATACAGATGCAATCTGACATGCCTTATCGTTATTACCTGAACT  
TTTTTCACTGTATAAAGGGAGAAATACATTTTTTTACAAAAAAATTTTATT  
TATAAAATACTGGTATCATTTTCCAAAAAAGCATTACTTAAACATTAAA  
GGTTAAACGTCATCTTATGATGTAAAACG

>Sequence 1109

GGTACATTTTGGGCCTTTAATCCCATCTAAACAATTTGCTGTAAACGAAA  
CTCAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACCTA  
TGATGAGTAAAGACACTAGATCTGCAGGTCTAGTACAATCTATACATAA  
AAGGCCTTCAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAA  
AAGAAAAAACCCTTCTACACATTTCTTCTTTTATCTGCAATATGAGA  
AGGAATCCTTTCTAACTCTAATAACATATTAACAAGAATTAAGAACACGA  
TTGTCGGGGAACTCAGATGTTGGCAAAGCTTANAAATAAAAAACAAGGG  
CTGGGTGCAGTGGCTCAGGCCTATAATCCCAACACTTTGTGAGGCCGAGG  
CAGGAGGATTGCTTAAGCCAGGAGTTTGGGATCAGACTGGACAACAAAG  
TGAGACCCCTATCCCTATCTCTCCAAAAATTTTAAAAATAGCTGGGCAC  
AGTGGTGTGTGCCTGTAGCCCCAGCTACTTAGGAGGCTAAAATGGGAGGA  
TCCCTTGAGTCCAAGAATTTGAGAATGGCGTGAGCTATGATCAAACCTCA  
ATTCAGCCCGGGGTGAACGAAGCCAGGGGTTTTTAAAAAAGG  
GAAAAANNAAAAAAGGGGGAGGTTCCCTTGGGCCCCGGGGGCCCCGGG  
GCCCGGGGTTTTTCGGAAAAGAGGGGGGCCGCGGAAAAATTTTTTCC  
TCCCCACAGGCGCCC

>Sequence 1110

GGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCCAAAACCTGAATGC  
TTTTAAGAGCACCCAAGTCAACTCTTGGAGTGCTTTGCTGCTTAGAAATTT  
ATTCCACCAGATACCCTAAATCATCTCTCTCAAGFTCGAAGTTCCACAGA  
TCTCTAGAGCAGGGGCAGAATGCTCCAGTCTCTTTGCTAAAGCATAGCA  
AAAATCACCTTTGCTGCTCCAGTTCCTAATAAGTTCCTCATCTCTGTTGG  
AGACCACCTCAACCTGGACTTCATTGTCCATATCAAGATCGGCATTTTGG  
TCAAAGCCATTACAGCAAGTCTCTAGGAAGTTGCAAACCTTTCCACATTTT  
CCTGTCTTCTTCTGCACCTCCAAACTATTTCAACCTCTCCCTGTTACCT  
AGTTCCAAAGTTACTCCACATTTNTCAGGTATGTTTACAGCAGCAACCCG



Table 2

CTCTACCGGT

&gt;Sequence 1111

GGTACTTTTTTATGTTTTAATTTTTTTGTAGAGAATGGCTCTTGCTATGTT  
GCCCAGGCTGGTCTTGAACCTCGGACTCAGGTGAAGTGATCTGGCCACC  
TCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACTCCCAGCC  
TGTAGCCTATTTTTATAAATGAAGTTTTATTGGAACATAGCCATGCCTGG  
TCATTTACATACGTCTATGGCTTCGTATGCAATATAGCAACAGAAATATAT  
TAAACATTTACTACCTGGCCCTTTGCAGAAAAATGTTTGACAGCTCCTGCT  
GTATAAACATAAAATCTGCCAAAAAATGCTGATATTACCCACATGGAGA  
AACACTGAACCCCTCTTCAGAAATCAGATGCCAATTTAAATATTACTATC  
AGAGAAATACACTCTGATTTTTTTTTTCTATTCCCTTTCTTTTATTTTCT  
TTTTTGAGACAAGGTCTTGCTCCGTTGCCAAGCTGGAATATGATGGTGC  
CATCATAGCTCACTATAACCTCCGAATCCTGGGCTCAAGTGATCCTCTTG  
CCTCAACCTNCTGAGTAGCTTGGACTATGGGCGTGTGCCGCCGACCCCTGG  
CTAATTTTTTGGGATTTTTAAAAAAGCGGGGGTTTTTCCCCACCGTT  
TTGGGTCCAAAAAAGCTTGTGGTCTTTGGAAAAACCTTCTTTTGTGAAACC  
CCTTCCGGTGGGAAATACCCCTGGGGGGCCCCCAACCCCTTTTTTTT

&gt;Sequence 1112

CCGCGCTCGAAAGCCCTATACTTAGCGTTTTTAACCTTATATNTCTGTGC  
TTNNNNNNNCTNNNGGNAAGTGGGGGGAATGAGGAGTGGGGGGGAGTGC  
TACGCGCATGTGTGTTCTCAATTCCCCTTACGGCCCCGGCAGACCTTGGC  
TTGACTGTGGTCTANAGCACAAGAATATGCTAGGCTGCACTCTGCTAATC  
AGATGTGTGAATGGTCTGTGGNGTGTATTGAATGGGAAGCTTTTGCCCG  
GNGAACCAAGCTCTCATGGATGATGTGGTGAAAGCCACTTCTAGGGGCT  
GATCACCATCATAGGTGGTGGAGACACTGCCA

&gt;Sequence 1113

GGTACTTTTTTCTTTTTTCTTTTTTTTTTTTGGAGACAGAGTCTCTCTC  
TGCTACTCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTC  
CACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG  
GATTACAGGCAGGCACCAACACACCCGGCTAATTTTGTATTTTAGTAGA  
AACGGGGTTTCTCCATGTTGGTCAGTCTGGTTTCGAACTCCAGCGTCAG  
GTCATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGC  
CACCGCGCCAGCCACTTCTGTATTTTTAAAAAAGTGGTAAGATTTGAGT  
ATTATACTGGGATAGAACTGAAGTTGGGGGCTTAATTTGATCTATCAGCT  
TATTGAAAACAAGGACCTTTTAAGAAATGGTTTTGTTAGGTTGGAAAAGT  
GAGTTTTAATTCGTCATTTAATTAGCCAGGATGTTGATTTTTTTTGGTGA  
AATGTACCTGCCCCGGCGGCCGTCGAAAGGG

&gt;Sequence 1114

GGTACCACATTGACCCAAGGACCTCTAGCTGTGTTGGTGAGGCAGGTCT  
TTGTCAATTTAAGTAATCCTGTGATGGTGTACCAATCTTGTAACCTCAC  
GACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCCTTAATGGGCAG  
TTTTTTTATATATACGTTCCATTTTCAGACAGGTGGTGCTTTGAGTTG  
AATTTGCAAGTTCAGTGAAACATGGATCTCTTTTTTATTTAACTCCCTTT  
TCTTCTCCTAAGGTGCTTAATTTCCATGCTTGACATCGT

&gt;Sequence 1115

TGTACAGAAGGGTTTTACCATGTTACCACTGGTCTCAAACCTCCTGGT  
CTCAAGTGATCCATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACT  
TGAGCCACCGCACCCCTGTCCCATCACTTTATATTTTCAAGAAGGTGGTGA  
GGGTGTGTTGGTGCCTGNGGTCTCTAGCTGAAGAAAAGGGAAATTTTTCT  
ATCTCTGGTAATGTCTTTA

&gt;Sequence 1116

TGTACCATCCCATGGACACAAGTTTCCAGGCAGCAGCCTCCAAGAATTTT  
GTTAGAGATGTCCCATCACTTATGGCCCTACACTGTTTACATCTGGACTC  
TGGATTGCAAGTGTAAGGAAGAAAGTGAAAATGAAAGAGAAAGTGGAACA  
AATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGT  
TAAGTGGAATAATGCTGTTGCCATGGGAGT



Table 2

## &gt;Sequence 1117

AAAAAAAAACAAATATTTTTTAAAGCGTGAAAAAAAAAAAAAAAAAGAGGGGGGG  
GAAATCTAAACTTGGGAAAAAAAAAGGGGGCCTTAAAAAAAAAAAAAAAAAAAA  
TTTTAAAAACAAAAAAAAAAAAAGAGCGCCTTTTTAAAAAAAAAAAAAAAAAAAA  
GCCCCCGGGGGCGCGCCAAAAAACCCCTTTTTTAAAAAGGGTTTAAAAA  
AACACCCCCCTCCCCAAATTTAAAAAGGGGGCCCGGGAAAAAAAAAAAAAGGA  
AAAGGGGGTGGCAAAAAAAAAAAAAATCCCCCCCCCAATTAAAAAACACAAA  
TTGGGGGGAAAAAAAAAAAAACGGGGTTAAAAAAAAAAAAAGGGGGAAANTTC  
CAAAAGTAAAGAGGGGAAAAAAAAAGGGTGTTTTTGGGGGAAAAAAAAAAAA  
AAGAGGCCCCCCAAAAAATTTGTAAAAACAAAAAGGGCAACTTCAAGGGG  
GTAAAAAAAAAAAAAAAAAAAAATTCCCCCCAAAAAAAAAAAAAAAAAAAG  
GGGGGGGAAATTTTTTCTTATTTGGAAGAAAGAAAAAAAAAAAAAGGGGGG  
GGGCCCCCGGGAGTTTTTTTTAAAAAAAAAAAAAAATTGGGGGGGGGGGG  
GGGTTTTTTTTTTTTTCCCCCCCCCCCCCCCCCAACAATAAAAAGAGAG

## &gt;Sequence 1118

TGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAAAAAGTTGGCCCAG  
CCCCAGGGAATAAATTTTGACTGCTCTAAACAACCACAGACCAAGGGCCA  
AATCTGGCCCTCTGACTGTATAAATTAAGTTTTACTGGAATAAAACCAGG  
TCCATTGATTTATCCATTGTCTACATACGCTTTTAGGCTACGATGGCACC  
ACTGTGTCACTACAAAAGAGGTTATCTAGACAAAAAGCCTAAAATATTAC  
CGTTTGCCCTCTTTATGGAAAAAGTTTGCCATTCCCTAGTCTAAGGTTTAG  
ATTCTGAGCTTATCATGTTATCCTACCCCCCCCCCGCGT

## &gt;Sequence 1119

ACAATATGGAAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGT  
TGTCCCATGTAAATAGTTTAAACACTTGTAGAAGTATTAGAAGAGATCCT  
TAGGGAATGATGCAAGTGGCATTGAGCTATTCATTTAGAGAANAGTTTA  
GAAACATGCAGTCTANNAGGAAGAGATAGAGGCAATAGGAAAAAATATAC  
TTAAGATTAACAGCTGTTTATCCCCGACTTGCTTAACTTCNGATGTNGTG  
TCAGAAAAGCAACAGTATGGGCTAGAACAAAGTGGGAATGGCGTTTTAAG  
AAGTAGGAAAAGGGCAAGTCTAAAGAAATTTGAACTTNAGATACTAACT  
TGTGTTGCNAGTGATTAATCATAAGCTTATTCCTCATGAAAAGTATATAT  
TTCTTTCACACTACNCTAAGACAGTATTATACATTTTGCTTTTTTATCTG  
AGGGATTGAAAAAACAAAATTATTATTTTTGCCTTTTAAANTCCTTAGA  
ANTGAACTAGAACTCTATATTTAGGGAGTTAGCAAAAAAAAAAAAAAAAT  
ACCTTGGTCCGCACCAACCTTGGGGAGAATTACTTCCCACTTGGCTGGCG  
GGTCTTTTTTGATGCAACCTTGGGTCCCAAACCAATTGGGTGGGAAGCAAA  
GGGGTCGGTTAAACTTGGCTTTCCTTGGGCTGGAAAAAAAAAAAAAATTTTT  
TCCCCGTTTCCCGGCCTTTATTTTTTATTTTTTCCCCACCAAAAAAAAT  
TTTTTCCTTTTAAACCCCCCCCCGGGTGGGAAACAGAGGGGGT

## &gt;Sequence 1120

GGTACACACATCTTTTTGAGATCCTACCTTCAGTTCTTTTGAGTATATAG  
CCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAATTTATTG  
AGGAACCACTGTAGTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACC  
AAGAGTGCACAAGGGTTCGAGGTTCCACATCCTCCCCAACACTTGTTA  
TTTTCTGCTTTTTTTAGATTGCAGCCATCATAGTGGGTGTGAGGTGACAT  
TTCATTGTGGTTTTGATTTGCATTTCCCTAATGAGGAGTGATGCTGAGCA  
TCTTTTCATATGCTTACTGGTCATTTGTATGTTGTCTTTGGAAAAATGTC  
TATTCAGTCCCTTGACTATTTTAAAAATTGGGTATTAGAGTTATCGTT  
GGTGGTGACTTGTAGGAGTTTCTTTCTATATTCTGGATATTAATCCCCTA  
TTAGATATATGATTTGCAAAATTTCTTCTCTTATTCCTAAGGTTACTTTTT  
CCTTTTGGTGAATGGGGTCTCTGATGGATAGAAGTTTTTAGGTTTGAAAT  
AAGCTAAATTATCTGGTTTTTACTTTTTGGGGGCTGGGCTTTTGGGGCCATA  
TTCAAGAAATCCTTGCCACAACACGTAATAAGGTACCTGCCGGCCGGC  
GCTTCAAGGCGAATTCAAGACACTTGC GGCCCGTTTTTTTGAATCCAGC  
TCGGTCCAAACATGGCGATATAATGGGATAACATGGTACAGTGTTAAATC

## &gt;Sequence 1121

Table 2

CCCTTAGCGTGGTCGCTTTTCGAGGTACTTTNTTTTTTTTTTTTTTTT  
TATTTAGTAGAGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCT  
CCTGACCTCGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACA  
GGCGTGAGCCACCGTGCCGGGCTGAAAAATAACCCTTTAGATATCTACAG  
CTTTAAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAGTCATTGGCAT  
TTAATAAATTGCAGTAAATTTATACAGTAAATACATTACAATCATTAA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAG  
AATTTTATTCTGTTCTCAATATGTTGCTGCTCTTCTTATCAAATACTATA  
ATAAACTATATGACTATTATATAGATTTTCAGGAGCTAAAAAAGCCTTA  
TATTTTCAAATTAAGAACAATATTAATTTTGCAAATACAATGAGCATT  
ACTGAAGTATAAAGGTAATATTTTGGATTAAAATATATGGTCATTTAGAT  
ACCGGCCTTAAAAGAATAGAAATCTTAATGATTTCTTCTGGCTACAGTG  
AGCTTAAAAATACCACCCCAAAATTTAATAAATATGTAGCACTTCAAGAA  
ATTTTTTAACAACCTTCATAATGTGAAATTGAGCCATTTATTTAGAACCTT  
GAATTTGAAATAACTGCTGGCATTCTTTTGAAAGGGACCTTTAGGGAGT  
TCCTTATCCGACACGGAT

>Sequence 1122

CCCTTCGGTTTTCCGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCG  
GAGCTCGACCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAG  
TTTAAAAGAAGGAAGCTTATCTAACACGTGGAATGAAAAGTACC

>Sequence 1123

ACCTTTTATCCCTCAAAGGACCTTCTTGGGTTTTGAATGGAAGCCTTTA  
TTCCGGTTAAGATGTTTTCTTCTATTTTGCCACTTCCATCTTTTTTTGTG  
GCCCTCGATCCTATTTTCCCTGACTCCATGCTTGGTTGGCCCTTATAAA  
ACTTGTGCCCAAAAGATTGTGGATTAGACTTTCCGAGGACTTACCTGTCC  
TAGGGGAGTAGGCAAGCACTTCCACTAGGGAGGGGGTGGGGGAAAGGAAT  
GACACATGACATACATGGCATAACATTAAAGCAGTTGATCATATGTCTGA  
CTGGGTTCCAGTTTCTTGGGAATGTTGGTCCCCTGTTTCAGGCTTGCATA  
TTTTAACTAAAAATTTTCAGTCTATTGTTTTTGTAGTAACCTCATTATAGT  
CCTCCATAACAAGTTAGAAAGGATGTATCTGCTACCATTATTCCTATAAT  
TTTAAAAGTTGGGGCTTGACATTATACTCATTTAGTGAGAGTAGATGCA  
AAAAAGTGAGGGGCAGGAGAACTTTTTTCAGACACCTCAGATAAAGTCCG  
GAGCCCAAGCTTTATCTTAACCATGTATGGTACCTCGGCCGCGAACCC  
TAAGGG

>Sequence 1124

CCCTTTCGATCGGCCGCCCGGCAGGACGCGGGTAGGGCAACTTGGATGT  
ATGCTTAGGGTTCGCAAAAAGTAAACAAAAATACAAGGGAAAAAATTAT  
TGACAATGAACTGCTTTGGTAGTGATTTGTGATTTTGTTTTTTCTTGATT  
AGTAACCAACAGCACAGCCACCAAGAAA

>Sequence 1125

GGTACAGAAAAAGACACATTTAGATAAACTGAAGCAGATTAAAGTGA  
TATAAGACAACATCTTTGTTTTATGTTTAATTTCAAGTATGGTTAAGCA  
CTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACCTTACA  
GAAACAAGTGATGTCAGTAGCCAACATACATCCATGTCAGCCTATATATG  
ACTTACTAGGAGGGCTTAGTTTTTTTAAAAGAGATGAAAAATAAAGAGAAG  
GTCTAGTATTTTCTCCACATTCCAACAGATCATTTTATGTGCCCCCTT  
TGGGTGAGCACATTCCATGTTGTAGACCATTGATCATAGTAGTCAGAGCA  
TGGAGCTCTGGAGTTCAGAANAATAATTTTATTATTGCTGGTATGACAAA  
AATAATTACCATGAAAAAAAAAAAAAAAAAAGT

>Sequence 1126

ACTTTACTGTTCTTTTAAACCTGGAGAAGCCTCTATGGCTTATTCCTTA  
GAAGCAACAAATGAAATGATGTATAAAGCATCAAGTCAAAGATACAGAGA  
ACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTA  
AATACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTA  
GGGATCCACCGTGTTCATAAAAGTGCTTACACTCATGTTTGGCTTTCA  
AGAAGTGATATGCCTACTAAAGCTGTTATTTTGAGACTATCCCGGTACC

### Table 2

**>Sequence 1127**

CCCTTTCGAGCGGCGGTTTCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTT  
TTTTGGCCTCCAATTCATTTTAATTTTGTTCCTTGTGTGTCTTTCCTC  
AAATATACAGTCCATCACCTTGGCTCAGTGCATGTCACCAAAAATTCTCC  
AGGGATTTCATAGTCTCGGTGGTGTGGCTGGCCCAGGACTATCCATGCAG  
GGAGGCCTGCACCTCTGACAGTGGCTGCAGCTGGGGGTGCCCATCTTTT  
GTGCTCTGTGGTACTCCTACACACATAAAATTCAGGAAATGACTAGATGAG  
CCTGAGTGGCTTTATCATTATTGTGCAAATACAGTTTCTATACCCACAAA  
CCCAAATTAATTAATTATAGGGACTAATGGCTGTGAGGTGGGTGTGGGAG  
GAAAAAATTCACAAGCTTGTGTACCAATTACCTTTACCATGAATTTTATG  
TACCCTTGCGCGCTACCACACTTAGGGCTATTTCTGTGCACTGCGGGT  
CCGTATCTTAGGGAATCCCCTTGGGTCCCACATCATGGATGACACCTGG  
TAATTAACCTGGTTCCTCTCATAAAATAAAATTCGGTGTACATTCAACAC  
AAAATTACGTACCGTACTGCAAAATATTATTTCTTCGGCGTGCCACTCA  
GATGATCTTACACACATCTATTGCTACGCCTTATTGTTTCTTTACAATT  
ATACAACTTATTTCGGATAACTTCTCTAAACTAACTTTACACCCCTGCGTT  
AGGGCGCTTATCTATTCTCCATCATTTCTCAACCGTTT

**>Sequence 1128**

CCCTTTCTTTTTGCCGCCCGGGCAGGTACTATCGATTGGGTCGGGGGTGA  
TCTATTATCATTGAGTAGGGAACTTACTAGGTTAAATAGAGAGTATATA  
GAATGTATTTGGTTATAGATATGTGAAGGAAAAGGCATAATTATATGGTC  
ATCCATGCTGGGGAATATTTTGTAGGTATGTTTTGTTGAGAGAAATCGAT  
CATATTGGATCAATAGAATTAGACAAATATCTTGAGCATCAAGAGACCTG  
GAAACATGGGAATGATAAAGAGAGAAAACTGCAGTTTCGACGTTCTTGA  
GGCCACAAGAGAGATGGAGGAATGAGGGTCGTGTATAGGAAAGAGAAATA  
AGAAATTGTGTGGGAGAGAAAGATGGTTTATTGTGATGGTCAAATACCG  
AGCATGGGAGAGCCAATGGACAACATTTGAAAAATGAATCAAATTGATAA  
AGTACCTTCGGGCCGCACCACCTTAGGGCCAAT

**>Sequence 1129**

ACAGTGGCGCAAICTTGGCTAGTGTAATTCAGTCTTTTGAATAAATGGAA  
AAAATAAATTGTATGTTATTTTTATACAGAAAAAAGGCCTTAATATCAT  
AAGGTTTTTTTATAGCCCTCAAAACTGATTTTTTAAATGGAGGTAGGCAAC  
TGAGAAAAATAAGCATTTAAATTAGTTTTACCCCCAAGCCCCCAAAATT  
TTGCTTACAAAAATTAGGGTACC

**>Sequence 1130**

ACTTNTTTTTTTTTTTTATTTTTCTTTTTTATTATTTTTTTTTTTT  
TTATTTTTTTTATTTTTTTNNNAANNTTTTATTTTTTTTATNNNTATAAA  
AAATTATATACNAGGGGGGATAAAAAAATAATAAAAGGGGGGGTGGAAA  
AAATAAAAAAAAAAAAAAGGGGGGCCAATATAGCGGATTGGGGAGAGGGAAA  
AAAAAAAAAAAAAGGGGGGTTTGAAAAACAATAAAAGGGGGGCCGAAAAAA  
AAAAAAGAAGATGGGATTGTAAAAAATAAAAGGGGAAAAAGAAAAATAATT  
GGTTTAACACAAAAAAGAATAAAAAAACGGTTGGGAGGGTTAGGGGGG  
AAAAAAAGTGAGGGGGGGAAAAAATGGAGAAAATGGGGGGGGGGGAAATA  
TAGGGGGAAAAAGGTGGGGAAAAAAGGTGGGGGGGGGAAAAAGGCGAAA  
AGATTGTACTAGGAGGAAAAAAGTTATTACGGCGAACATATAAACAAA  
AAAAATAGGGGGGGGGAAAAATAAAAAAGAGGAAACCGGGGGGGGCAAAA  
GAGGGGGGACACTCCCAATATATGTTGGGGGGGGGAAAAATGGGGGGAAT  
AAAAAAAAAGAAAAAAGGTGGGCACATGTGAGAAAAAATAAAAAACATA  
CAGGCGAGGGGAAAGAGGAGTTAGATAAGGAGGAGGTATATTAATGTTT  
AAAAAAAAAAAAAAAGAGGAAAAAGATTGGAAAGGGGGAGGGGAGTATG  
AGTAAAAAGAGGAGGGGAGAAAGGGAGATATAAAAAAGGGTGAGAACC  
AAAAAAAAAGGGGGAAAAAAGAGGGAGAAAGAGGGGAATAAAT

**>Sequence 1131**

Sequence 1157  
 ACCGAGGAGGAGAGGCTAGCAGTATTTTTAAATTGGTTTCTAAATTTTT  
 ATCAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAATCTGAAAAA  
 CCAATCCTCAAAAAGACCTCTCAATTAGAATTCTTAAATGACAATGTTTTT

Table 2

TTTATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTAT  
CTGAAATAATATTTTAAACCCTATCATAAAATCTCTGCCTGGTAGAACAGC  
TGA CTGTGGAAGGGTAAAAATGCAGAGAACCAGTCATTGGATCTCCCTTCT  
CTACTTTGTTACTGAAATCTTGAACCTGTAGAACATTACTTATCACTGTG  
TTCCTTTCTAATGGGAAAAATAATAAAACACTTGCAGAGTATTNTTTAA  
AAGTTTTTAGCTTTAAAAAACCCTGTGCCTTACACAATGTGTATA  
TTGAGTTGATACTGATTATGATAATTAGATGGTATTATACAATCATTAT  
TCAGCAAACATTCACTTACTGAGCACCTACTAATGTCCAAGTACCTTCGG  
NCGCGACACGCTTAGGG

>Sequence 1132

ACATCACATGGTGAAAGCAGGAGCAAGAGGGATAGAGGTGCCATACACTT  
TTAAACAATCCGATCTCACAAGAGCTCACTCACTATTGCAAAGATAACTC  
CAAGCCGTGAGTGATTGGCTCCCATGACCTGAACACCTCCCACCAGGTCC  
TACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGGGATA  
AATATCCAAATTATATCATTCTGCTCCTGGCCTCTCCCAAATCTCATGTC  
TTCTCACATTGCAAAATATAATTATGCCTTCTTAACAGTCCCCAAAAGTC  
TTAACTCATTCCGACTNTAACTCANAAATTCAAAGTTGGCCAGATGCAGT  
GGCTCACACCTATAATCCCAGCATTTTGGAAAGGCCAAGGTGGGTGGATTT  
CTTGAGCCCAGGAGTTTGAGACCAGCCTGGGTAATGTGGCAAACTGCAT  
CTCCACANNNNNAAAAANNAAAAAAGTACCTTGGGCGCGAACACG  
CTAAGGG

>Sequence 1133

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TTTAATTAGCCAGGCTTGGTGGCCACATCTGTAGTCCCACCTACTCAGGA  
AGCTGAGGTGAGAGGATCACTTGAGCCCAGAAGTTCAAAGGGGCAGTGAT  
CACTCCATTGCACTCCAGCCTGNGTAACAGAGTGAGACCCTGTCTCGCCA  
AAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAGACCAAAGAAGTAACTG  
ATATTATTGAAAATATTTGATAGCAATCGCAATTATTTGGATAACTATTT  
TCACATATGTAAGCAAACCAAATAGGGTCTCAAAAGTTTCAGACCAAATG  
ATTCATGTTCTCTACTTCAACCTTAAAAAAGTTAAAGAATTCTACAAT  
TACAAAAAGAACAGTTATTCTATAGTTACAAAAAGACTTGAAAACCTTCA  
CCTGAATGCATCTCTTTGTTACAAAACCATTAAAGGAGGTAGGGGGGAAC  
TTCATGATTCAATGCTGCCTGCTTTTTTAACCCAGGAAATCCTTTAC  
ACCCCTTCTTGCTCTGGCCAGCAAGAACCTGAGGTGTACCTGCCCGGCCG  
CCCGTCA

>Sequence 1134

ACTTNTTTTTTTTTTTTTTTGTTTAGGAGCCTCTGGTTACGTTTTCTTG  
TATATTTACTTTCTCATCCTTTCTCTTTTCTTACGCTTCCATCTTTGACA  
TCCTTATCTATTCTAGTGCCAACCCCTCTCTTTAAAAAGTCNAGTAGTGT  
NNAATATAGTTGGCTCNTTTTTATTTANNAAAAATTTTAAAGATTGGGAT  
ATTTGCTTTACTTTATCATGTTACCGAGGGGCTTTATTTATANTNNGTGT  
ATTACANNAATATATTTGTTAACCTACCCTAGCAAATATTTNTATGGGTA  
ATAACTTTCGCTATTNTAATATAAAATCCCTGGGTTTTTTAAAAATCT  
TGAAAATGGCTCCATTTTAAAGTAATAAGGGAGACAGGGGTGAAAATTGG  
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TTATTTGGAGGTATAGGTTTGATTATAAGCCTATATTTTGGACATGGTCC  
CTTGGGCGCCGGGACCACCGCTTAGGGGCGAAATCCACACACACTTGGCC  
GGCGCGTTACTTAGTGGATTCCCGAGCCTCGGTACCCAAGCCTGGGCGTA  
ATAATGGGCAATTAAGCTGGTTTCTGGGGAGAAAATGGTTATCCCGCTC  
CCAATTCCACCACAACATACCAACCCGGAAGCCTTAAGATGTAAAGCCTC  
GGGGTGCTCAAGGACGAGCCTAACCTCCCATTAATTGTGTTGCGCTTAC  
TTGCGCCGTTTCCCAATTGGAAAACCTTTCTGGCCAACCTGATATATGGA  
AATGCCCCACGCGCGGGGGAAGAGCGGTTGTCGTTTGGGCGCTTTTCCCT  
CCTCCCTTCACTGACTCCCTTTCCCTGGCGTTTGGTGGTGGGAGGGGTAA  
AT

Table 2

## &gt;Sequence 1135

GGTACAGAGGAAATGGGACTTTGCAATTATATTTTTCTAAGTGGTCTGAA  
CTTGGTCTCACTACCCACATCANCCTGGAATGGGTACCAGGCCTCAAAG  
GACTGCCCCACGGGCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTC  
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CTATGCCGGTCACTATAATGGAATCCGATAATTCGTTACGGAGACCTTGG  
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## &gt;Sequence 1136

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## &gt;Sequence 1137

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CTGGTCTTGAAGTCTGACCTCAAGTGATCCATCCGCCTTGGCCTCTCAA  
AGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTGTCAGGGTTT  
TCTTAACATTAGCAACTGCATTTTGATTCTGACAACTGTCACAACATTTT  
GGGCCAGGTAACTTTTGGTGGCTTGTGCCCTGTAAGATTTTAGCAGCATC  
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## &gt;Sequence 1138

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G

## &gt;Sequence 1139

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Table 2

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>Sequence 1140

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>Sequence 1141

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>Sequence 1142

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>Sequence 1143

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Table 2

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>Sequence 1144

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>Sequence 1145

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>Sequence 1146

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>Sequence 1147

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GTATAAGCATCCTAATAAAAAGGAGAGGTTCAAAGACGCTCTCCAGAACCA  
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>Sequence 1148

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TATAAAAAATGACTTACAGCTTCAGCTTAATCAGTTGCTATAATGTGAAA  
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>Sequence 1149



Table 2

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>Sequence 1150

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>Sequence 1151

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>Sequence 1152

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Table 2

AACACTGAGGATACAATAATGATCAAGACAGGTCTAATTTCTGTCCCATA  
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>Sequence 1153

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>Sequence 1154

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>Sequence 1155

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>Sequence 1156

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>Sequence 1157

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TCGAGCTGGCTGCATCAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTC  
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Table 2

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>Sequence 1158

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>Sequence 1159

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>Sequence 1160

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TTCCAGAAAACTTGACTATTAATAGCCTACTGTTGACCGGAAGCCTTAC  
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>Sequence 1161

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>Sequence 1162

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CCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCAT  
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CATCTGTAAAGTGTCTCCTGACAGCTGCCTCCTAGGGTTGTTTTGAGG  
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>Sequence 1163

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>Sequence 1164

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>Sequence 1165

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CTGACTTTTATCTTTACCAAACCATATTAACATTTGCATTTTATAATTGG  
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>Sequence 1166

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Table 2

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>Sequence 1167

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TTCTCCTTTTGTCTCTAGTTCATTCTCTAACCACCAACCATGAATTTTCA  
GGAACCTTTTTCTCATTCTCTTTGTTTTGTGGCCACTTTTCAATGTAGA  
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CTCTGAATTATTTATCCAAAAGTGCCAAAAATTTGAAATCTTGCTAGTG  
AAAACTTGCTCTACTTTTTTGAATGATCAAAAACCCCTAATATTTTCAT  
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TTAAAAATACCTGTCCGG

>Sequence 1168

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GAATGTGGAAAAAATACAGAATCTGTTGGGCAGTTATGGTTGGGCCTTCT  
TCGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCA  
GGAGAAAAAGTCTGCTTACAACTTTAAAGAAACAGTGGACCTCAGAATAC  
ATTGTTATTGAAGATCCCTTTGATTGAATCATAATCTCGGAGCTGGATT  
ATCAAGGAAAATGACAAATTTTATAATGAAGGCTTTTATCAATGGTAGAA  
GAGTATTTGGTATTCCTGTCAAGGGAATTCCAAAGGACTACCCCTAAAAA  
TGGAATACTTTTTTGATCCACAAGTGTTAACTGAAGGAGAGCTTGCCCCC  
AATGATAGATGTTGTCCAAATTTGGGGAAAAATCGGACACTTCATGAAAG  
ACTTGTCTATGAAGAGAAAAAGTAGAACGCGGGGAAAAACAAGAAGACGCC  
CTTGAACAAAGAATACCTGGGACAAGGGAAAAAGAAGCCAGGAGGCCAAG  
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AAT

>Sequence 1169

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CAGTTCTCAGGGCCTCAAGTCTTTTCCATTCCATCGCAGAGTAGT

>Sequence 1170

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GGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTC  
CACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAAT  
GCTTGGGAAATAGTCATAATTACCCACATATAGTAATTAATAGATGGTAA  
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Table 2

GGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCGAGACCAGCCCAGC  
CAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACG  
CCTGCCTGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGGATCGCTTG  
AACCCATGAAGTGGAGACTGCAGTGAGCCGATATCGCACCACAACGCTTC  
AGCCTGGTCGACAGAGTGAGACTTCATTTCAAGAAAAAAATAAAATTAAG  
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AAG

>Sequence 1171

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ATTTGATTTGTGTTTATATTTGAGGCAGGTATTGTAATATAAAGGAATCC  
ATTACCATGTCTATAAATGACCTCTAGCCATTTTATGATTATGTTCTCT  
GTAAACTCTTCAAGACTTCAATGAGAAGTTTGTTTATAAGAATTATCTT  
CTCATACCTTTCTTGTGAAGAGCGTATTCTGTTTTCTATCAGTTTCGAC  
ATGAAGTCCACATCACATGCTGTTCTTTCTAGTTACATGATGTGCCTT

>Sequence 1172

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TCCAGGCAGTCTGACCTGCAGCTTATGTGCTTAACGATACTGCCTCTCA  
TGTGGGCAAAGGATGGCCACGAGAAAGGCAGGCCAGATTCCAAATCTG  
GCTTGACCGTCTAAGAGGCTGAGACTTAACCTCTCTGAGCCTTAGCTGTT  
TCATCTAGAAAGAGGACCTCCTGACAGCTGCCTACTATGGTTGTTATGAG  
GATAT

>Sequence 1173

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GGCTCTGTCTTCATGCTAGAAACCAAACCTGCTCTCACAGCTTCCTGCTAA  
ATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACC

>Sequence 1174

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CAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAAAGACAGTGAAAATT  
TTGGGTTACTGTAGATGTCCACAGTCTGGCTTGAATTTAGTTCTGTGA  
CTAAAGGAGGCTTACAGTTGCTCCAATTTTGGTTCTGTGGGGTACCTGCC  
CGGGCAGCCGCTCAAGGG

>Sequence 1175

GGTACATGGTCACAACAGATGAGCAACTGATATCACTCACACATGCTATT  
AAGAACTGTCCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAAAG  
CGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAA  
ATGCCAATGTCTCAGTGCCATTGATGTTTCAAGAGAGGAAGTGGCTGAATTC  
CCACAGGAAGAGTTGCCCGTTAAACTGTCTCAGGTGCCAGACCCTCCAGA  
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TGTTGTTAACACCACC

>Sequence 1176

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GTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGGTAAAGATTTGCCG  
AGTTCCCGCGTACCAATGACTGGTTCCATGATCCCTAAGAGAACACAA  
CTTAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTA  
CTTCTGAGCCTTATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTTACACT  
TTAGAGAGGTTGATTAACGAGTACC

>Sequence 1177

GGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGCCTGCAACTTATT  
CTTTAATAGTTTCAAGAAATATTAACAATTGGGTAAATTTGGGTGAAAGGTAT  
AAGGAGCTATAAATGTTATTTCTGCAACTTTTATGTAAATTTCAAGTTAT  
TTAAATGAAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACC  
TATTAATAAATCTGAGTCCAGGCATGACACAGTGGTTCATGCCTGTAAT  
TCCAGGGAGGGACTGGGAGGCCGAAGTGGGCAAATCACTTGAGGTCAGGA  
G

Table 2

## &gt;Sequence 1178

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CTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATA  
GAGTATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGAT  
GTTTATTTGTTTCATTAGCACTCTGAGTACC

## &gt;Sequence 1179

GGTACTTTNTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTAAAAAAACTGCCTCC  
TTAATGGCAGGAATACAATTCCTTGGTTAAGAGACCCCCGGAAGG  
AGGTGACTTTTTTGGAAAAACAATTTGGGAGTTAAAAAGGGTGTAAT  
ATTCTTGGCGGATTTTTTGTAATAATACAGTTTTATGTTTTCTTTTTT  
GCGACACCCAATCTTTAACTCTTGAAACAGGTTTTTCCCTTTTTTTTT  
ACAAACCCTGGTTAAAAAACCAATTTTTTTTTT

## &gt;Sequence 1180

GGTACTTT  
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GGGGGGGGAAGTGGACAGGATAAGGGGGAAGAATTTTTTTTTTTTTTCCC  
CCAAAAATGGTTTTTGGGGGCTGAAATTTAAAAAAAATTTTCAACCGG  
GATTTTGGCACGGGGGGGGGGGAAAAAAGGTTAAAAAAAACCCCTT  
AAAGGGACCGGCTTAAAAAGGGG

## &gt;Sequence 1181

ACTTAGGCTTTCATAAAAAATACAGCAGGGCAAGAGGACCAAGATGGAGGC  
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AGGTGGAGAAGCAAGCCTTGTTGGGTATTTAGGGTAGCAGTAGTCCAGGCA  
AGGGGAACAAGTAGTGCAAGGCTCTAGGAGGCAATGTGTTGAAGTGTT  
TTAAGAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGG  
CAAAGTGGTAGAAGGTGGGATCAAAGAGGTAATGAGGCCATTGTGGAGGC  
CCATATGGACTATTGGN

## &gt;Sequence 1182

GGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCACAAGGTGAAGTCC  
CACAGTAGGCTATCTGCAAGCTGAGGAGCAGGAACCGCCAGTCAAACCTCA  
AAAGGATAAAAGGGNNGGAAGCCGACAGGGCAGCCTTCAGTCTGTGGCTG  
AAGGCCCTAGAGCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAA  
AGCTGAAGAACTTGGAGTCCAATGTTTGAGGGCAGGAAGCAGCCAGCACG  
GGAGAAAGATGGCCGGAAGACTCAGCCAGTCTAGCATTTCACATTCCCC  
CGCGTACCTGCCCGGGCGGC

## &gt;Sequence 1183

ACTTTTCTTTTGTGTATTACTTTTCACTTAGCATAATGTCCTCCAGCTT  
CATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGGCAAGGGT  
AAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAA  
CTCTTCCCTGTTTTAGCTAGTCCTCAATTTGTCTGATGTCTGAACCCAC  
TGCCAGAGTTGAGTCTTGCTGTGAGTCATGTCCAGACTCCTACCTCAG  
AAGTATGAAGCATAACTGGTGTTACAAACACCATCTTCAGAACAGTGATT  
AACCTTACGCT

## &gt;Sequence 1184

ACGCGGGGGAAGCTCATTCTATACCCGAAGAGCAGTCTCAGAAAGCAAGA  
TTACTTTTGTGTTTTTAAAAAATGATTCTTTAATGTATTTTTCTAAACA  
TTCTGATTGGAAGTAGTGGATTCTTAAATGATTCCAAAGTCATCTGTAAT  
TCTTCTGTTTTTGTGTTTCTGTCTTTTCTTCATTTTGGCTTTGGGTGG  
GGGGAGGGGCAGGTGACACANAGGATTTTTTTTTTTTTTTTTTAATTTT  
GGAATCTTTTCCAATAACCAGCTAAAGATTTGCACTGAAATACAACCTGT  
ATGCCTTTTGCATT

## &gt;Sequence 1185

ACTCCTGTATTTGTTCTTATGAAATGACTATCTGCCTTCTCGTATCTAGT

Table 2

AAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTATTTTTTA  
TATTACCACATCAGCATTATATTAAGTGTGTTTAAATAGTTGAATGTAT  
TTTGCCAACTACTAGTATAGACTCAAATTTGCTATTTAATTTTTTAAAAATA  
CAATTTATTTTGTAATCCTTTAAAAAATATTTGGTTAGTTTTGGATTAG  
AAATGATTTATGTTAGCCATGTGTTGAAGATGAAATTGGCATCAGTGTAG  
ACGGTGCTGATTG

>Sequence 1186

ACATATCCCTATCTACTATGTAAAGACAAAAAGGCAAATGAAATGATGTA  
ATACAATGAACTCCTCAGAAAAATAAGCTCTGTAAATCTCAGACTGCCTG  
TTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTTAGAGAAAAAT  
GATGGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGC  
CAACTACAAGAGAAATACAGTTGGCCCTTGAACAACACAGATTTGAACTA  
CATGAGTCCGTGTACC

>Sequence 1187

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AGATGGCGTGGGGTTCCTGGGCCTGTCGGAAGTGGCATTCTTTACTAAC  
CACAGGTCAGGAACCCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCA  
GTTTTCCCAAGGAACCTTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTA  
AAGGAAAGCACACCATTCCTCATCAAGTCTGGTAAAAACAAGTTTCT  
CTAATTGTGCTCCTGTTGCAAAAGAAAACAGATTCTTATTGCACTTGTGCA  
AATG

>Sequence 1188

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ACTGGAAGTAAGTTCCATAGAGGGCGGAGACTTTTGTCTATTTTGTTCAA  
TGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAA  
TTATGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTCGATCACTAG  
TTGAAGTATAAATATATATTTTTCGAAGAATAAATGCTACAGTAACTGAT  
TATGACAGCTAATTCTGTGTACC

>Sequence 1189

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AAATATTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATAGA  
CAACGAACTATCAGAATCTATCATAACAGCAATGGTGAACACCTATTCC  
AGTTGGGGTGTGTGTGTGTTTGTGTGTGTGTGTATGTGGTGGGTTATAGT  
GTNNANTGTNTTNTTACTGTGACCATGTNNAAAAAATTAAAAACAATAA  
ATTAATGACTGTTTAAGTGCTTAAACCATGCCTGGAACATAGCAAGGTC  
TGAATAAATGTTAGCT

>Sequence 1190

GGTACACCTGGTTTACAGAAAAACAAAGCAACTCTTAAACACCAGCTGGC  
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TTATTTACACAGATGACGACTGGTACTGGTCCAAGGCTACTAACGATGGA  
TACGTGAGCAAGGCCTGAAGACTTATGACAGAGGGAGGAGGAGGGATGCC  
TAGCCGGGCGTNCGGTGGGAAGGGCAAGAGGTAAGAGACCCGCGAGTGCG  
GGGGAGATGGG

>Sequence 1191

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GATACATGAGGACTTACCTAAAATGTCTGAGAACTGACTTACGCTTGATT  
ACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATG  
TATAAAAAATAATCTTAAAAAATAAAATATGATGGTATAGTAATAAAGTAA  
AAATAAATATGGT

>Sequence 1192

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AAAACTACTGTCGTCTCATCAAAAAGATTGAGAAGCCAATTTAAAGAGT  
CTCACACTGGACACAAAAATAATTTGAGCTTCAAAATAAACTGCAAGGGA  
TTAAAACACATAAATTGTGTTAAATCCACAAGTTCATAATGATACTAAA  
AAAAAAAATCTTGTTGGTTTCTCTAGAGGCTACTAGAAAATCAGCTCA

Table 2

TTATTTCTGATATTGGTTTAAATAGAAGAAAGAAAACCAAGCATC

>Sequence 1193

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TTTAATTCCAAAATACATTCTCTCAACCCTATGCCCTCATACTAGTAACT  
TGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAACAGAAGGGGAAATT  
GGGGGAGCAGAAAAGGGAGAAAAAGAAGAAAAGGGAACCTTCTAGTTTCC  
TAATAAAAAAGCTAGAGAATTCATTCTGAAAATTAAAGATATT

>Sequence 1194

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ATAATGGTATATAAAACAAATACAATATGTACAATAAAACACCTAAACGCA  
GAGGCTGCTGTTATCCACAATAGTAATACCAATAGAATAAATGATGAGTA  
TGTATACACAGACAAAAGCACAGGACGTATTAATAGGCGGACCCACAAAA  
GCACAGCATAAGCCAAGTGTAGCGCACCGGTAGTGTGGTGGTGGCGG  
GATCTAAGATGTGAACGATGAAAATAAAGACAGCGCATCCCGGACGACCA  
CC

>Sequence 1195

GGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGATAGATCCAGGTGGT  
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TACAAGTTAAAGCTACCAAAACCCTTTTTTGCTGGAATTGCACCAGTTTT  
AAAGCCTTTTGGACAGAACCAATTTTGGTTTAAACTTTGTTTTTCTTT  
AAAAGCTTACAGGGTTTGGCTTAATCTTCCTTCCCTTTTTCAAAAAACG  
GGGGCCCGAGGGTTGGCCCCCTTGGGGGAAGGGTAAAGGGTA

>Sequence 1196

GGTACTAAAGGGAAGTTGCTAGGAAATAGAGCATGTAATCTTATTGTAA  
TTATGGAAACCATGGCAACACAGTAAATATTATGTCTCTTAATTTGTCTT  
TCAGTGATTTTTTGGCATGAGTGTTATGGAAGAGTAAACAAAATTAAACA  
CAGTGAACCTGAGTCATTTGCTACCCGAGTTAGTCATTTTCTTTTGAAG  
GTTGTCCANACAAACACTTTTTTTTTTTTTATTTTCTCCCCCTGTTGTGT  
CGGGGCGGCAGAAAAAATAAATGAAAGATAGGGATTTATAGTT  
GTATTT

>Sequence 1197

ACAGGAAGTGTNCGGAGGAATATATAGAAAAGTCTAGGCTTAATTCTC  
AGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTTACTGTAT  
ACACTTGTACC

>Sequence 1198

GGTACATGGCCCGCTCCCCCGTCCATTCCAGTTTCTGCCCCTCTACTGGC  
CATGACGGTCATCACAGTGCCCTCCTCATTCCTAACTTTTAAATACACTT  
GAGACCGCCTGATTAATCTTGCACTANGAAAAACAGAACAATACAAACAA  
GTAACAAAAACAAGACACTCACATACAATGNTTTTAAATGCTTGAAAAGT

>Sequence 1199

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TAGCATCCAAAAATGTGGAAGGCCTCCCAACCACCATNTCTGCTGTGTNC  
TTAGGATGTGCAGNAAAAATATAGACCTAACAGGTTATGTTATAGAATG  
GCTTTATTTACTTTGGTGACTGTTTATGAGTTTAAATAAAAGACTGAAC  
ATTTTCTCGAAAAAAGAAAGAAAGTACCTGCTCGGGCCCG  
CCGCTCGAAAG

>Sequence 1200

GGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGGACGCTGACTCTG  
GAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTCTTACTGTGACGA  
TTTTAGGCAAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAA  
AATGGAATTTATAATAGAACCTACATCATGAGTTGGTGTGAAGATTAAAT  
ATTTTATATCCCGGCTGGGTGCGGTGGCTCAACCCTGTAATCCAGCAC  
TCTAGAAGGCCAAGACAGACAGATCACCTGAGGTCAGGAGTTCAAGACCA  
GG

Table 2

## &gt;Sequence 1201

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TACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTGACTTATT  
TATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTCTTGAATGGTGTGG  
TGAAATTAAGAAAAAAAAAAAAAAAAAGAAAAAAAAAGAAAAAAAAAGTACC

## &gt;Sequence 1202

GGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATCAAAAAACATTTTT  
TAAACTTTTTTTTGCCAAAAACTTTTCTTTGGAAATGCAAAAAATAAAAA  
GGTTCCTTTTTCTGCCCTTAAGGAGCTAAAATTTTAAAAAAACTTTTAA  
AAAATAAAAAAATACAATCCCTGCCCGGGCGGCCCTTAAAAAGGGCA

## &gt;Sequence 1203

ACTAGTCCATTCTCACACTGCTATGAAGAAATACCTGAGACTGAGTAATT  
TATAAGGGGAAGAGGTGTAATTGACTCACAGTTCTGCAGGGCTGGGGAGC  
CCTCAGGAACTTATAATCATGGCAGAAGGTGAAGCAAGCATGTCCTTCG  
CATGGCAATGGCAGGGAGAAGTACC

## &gt;Sequence 1204

GGTACTTTTTTCTACAAATGAGTAATTGAAGAATTTTGTITAGCCAGAC  
CATTTAATTCTCATCAATTGCATAATTTTCTAGTTAAATCCGAACCTCA  
TTCTATATTAAGTAACATTTTATTCAGATCCATATCTAAATAGCAATTTT  
GTGAGATTTACTAAGAATTTTCTCTGGTATGTATGGTTTTGGTGTATTGG  
AATGTACCTGCCCGGGCGGCCGCTCAAGGG

## &gt;Sequence 1205

GGTACCAGAAGCTAATCCCCACCGGGGTTGGTTTAAATAGGGACTAACTA  
CTTTGGAGGACATGGAAGATACCTCAAGTTTAAATGCTTATAAACCAAGG  
CTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCTTGCACAGTGCCCA  
AGAAGGTATTAAAAGAATGTTTATTTCAGGTGTTATTTGTCATAGTGAAAT  
ACTGGAAGCACTGTAACGGTCCATTACAGAAGAACGGATAAAAACTATTG  
TGACTAATTTATATAACAGTATAGCATACGGCAGAGAAAT

## &gt;Sequence 1206

CCCTTAGCGGCCCGCCCGGGCAGGTACAAACAATTTTTTTTAACTAGCAGG  
GCATGGTGGTTTGTGCCTTTAGCCCTAGCTACTTGGGAGTCTGAGGCAGG  
AGCACTGCTTGAGCCCAGGAGTTTGAGAATACAGTAAACTGTATCACACC  
ACTACACTCCAGCCTGGGTGAGAGAACAAAACCCTGTCTGAGAAAAAAAAA  
AATTAACTGAGATGCATTTCCCCCTTTTACACTAAGAAACAGACCCTT  
CTTTGTTTCTCACTGGCCGCCAAAGGGAATGCTGTATGAGCATTTCAAGG  
GCAGATGCAGCTGCGATATCAGAAGACCCCG

## &gt;Sequence 1207

ACCTTGATCTCTAGCAACGAGGGAAAAATAAGAAAGATCAAGATTATTGTG  
TCTAAAGAAAACCTGGGAATATATATACTTGACCCGCTTCACTTGCTTACA  
TTGTCTGTCTGATTCTTCCAGGCATTAATTAGAATTTGCAACTCCTAGCT  
GGGCACAGTGGCTCATGCCTGTAATTCCAGCACTTTGGGAGGCCGAGGCT  
GGTAGATTACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCA  
AAACCGCATCTCTACTAAAGGTACC

## &gt;Sequence 1208

GGTACCCATATTGCTAATGCTAGGATCAAGATACCACATAGCCAGAACAA  
GAAGTTGAAGGTAAACATAGAATATTTTATACAGGCACTCACACCTGCCA  
TTTCGGAAGGATTAGGAATCCAGATGCCGTGAATTTAACTATTTCGTTA  
CAGGCTTGTCTGCAATATGCTCTGGAGCAACTTGCCTGCAGAGATTTCT  
GTATCCACGGACATTTAAATATCGCAAAGGCTATCTCCAGGCAAGTATGT  
TCCTTTGCTTGTATCCCCGCGT

## &gt;Sequence 1209

ACGCGGGGGAGGTCTCCATTCAAGTAGGTGGCCCGGGATGAAGGCCGTGTT  
GGGGCTAAACCACTCTGGAATTCTGTCAGCAAATTCCTCGCTGTGTGA  
ACTTGAGCAAGCCATTACCTTTCTTAAGCCATTTCTTGATATTTTACA  
GAGCCTCACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA



Table 2

ATGCCTGGTAAATAATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGC  
AGTCTCTGCCCTTTAATGTACC

>Sequence 1210

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ATTTTATCTGACTAGAAGCCATTTATTACCAAACCAATTTATTTCTTAGA  
GTTGAAAACCGTCTGTGAGAAGCTTCTCTGGCCTGGATGGAGATCCAGCG  
CTTTTTTTTTTTTTGAGGCAGAGTCTTGTCTGTGCGCCAGGCAGGAGTGC  
AGTGGCACGATCTCTGGTTACTGCAACCTCCACCTCCTGGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGTC

>Sequence 1211

GGTACTCTGCCAAGAGGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATG  
AAGGAACTTCCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGAGA  
ACCATGTGCTGTGAGGGCCTTCCGAGTCCATCTGTTTAATCCTGTCAATTG  
GAGACTTGAGAAACCAGAGCCCAGAAGGGAAAAGTGATTGTCCCAAGATC  
ACACAGCACTGGAGAAAGTGGATGAGGAGGGGCTGAAGAAGCTGATGGGC  
AGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCC

>Sequence 1212

ACATACAGTTTACATTGTGGTAACAAAGTAGGACATGCTATGAAGGCCCT  
TTGAATTTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAATTTTTAA  
ATAATATTGCTGGTTTTTGTCTCAACATGAATTAATAATATGGTGGCTAATG  
TGCAGATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATT  
GTTTAATATTACAAATGCATTTAATGACACTTAAAATTGTACC

>Sequence 1213

GGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTTCTAAATGCCATT  
CTCCAATTAAAAAGGAATCAAAGCACCTCAGATAAATGTTTAATTCCAGG  
GCTGGGGCAGGGAAAAGTGAAAGAGAATCACAGAACATCCTGTAATGACAG  
AAAAAAGTCACAATAAATGGTGGGATTATGTCAAAGGACATGGGATTCA  
ACTTGAAAGATCTTCCAATAGCCAAATCTGAGAAAAGTTAAGCAACAAAA  
AAAATAACAAAATCTTATAATCTATAGAAAAAATATGAATGTATA

>Sequence 1214

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TAGAAATTGGCGGCAGTTTATTAGTCACAACCTGCTCACAGGGAGGGAGGT  
CACCACATGCCATGCGGGGTACAGGAGAGTTGCATTTGGGAATAGAGTG  
AACCAGTAGGGGCTGTGGAAGGCAGGCTTTGCAGTAACAAGAGGAAGAGG  
CGATTCTGGCTCCTCCAGATGTGACAGGCTTGTGTAATAATTTTCCAG  
GCTGGAGGGAAGTGAGCCACGTTGAGACCCAAGGAGGGTACCTCGGCCGC  
GACCACGCTAG

>Sequence 1215

ACAATTAATTGTGTTCTTGTGACCTGATGATTTTTTTGAAAATTTGCTTTT  
CTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATT  
TTGGGCTAATGTTGACTTATAAATAAATAAAAAATTTAGAAATATATTCAT  
GATGACAATTTTGTACTTACACTGCCTATTCTTTATTTCTTTTTTATGTT  
CAAAGGTGAAATTTTGACCTTTGTATTAACAAAGCCTCAAGAAAAGAGAA  
ATTCTGCCTTTTAAACATTGGTTTTCTTGCATT

>Sequence 1216

GGTACATGGAGGAAGTGGAGGTAAATCGAAACCGAGCTGGATTACTTCCG  
GTCTGAACTCAGATCACGTAGGACTTTGATCGTTGAACAAACGAGCCTTT  
AATAGGCGGCTGCACCATCACGGATGTCCTGATCCGACATCCTGGCCTGT  
AACCTATTGGGGATCTGGACTCTAGAATAGGATTGCGCTGATATCCCTA  
GGGTTACTTGTGCCGACGGGCAAGTTATTGGATCAGATTGAGTATAGTAC  
TTGCGCTCTGACTGGTGGAGTCTTACCATGT

>Sequence 1217

GGTACCACTGTGCTCTAGCCTTGGTGACAGAGCGAGACTGTCTTAAAAAA  
AAAAAAAAAATAAAAAAGAATTTATTAATAAATTTAAAAAATGAAAAAA  
AGCTGCATGCTTGGTTTTTGTGTTTAGTTATTCTACATTGTTGCCATTAT  
TACCAAATATTGGGGAAAATACAACTTACAGACCAATCTCAGGAGTTAAA

Table 2

TGTTACTACGAAGGCAAATGAACTATGTGTAATGAACCTGGTAGGCATTA  
TTTATTGAATTATCATCATTCCATATGTCCAGCACATTTTAATAGGAAA  
GT

>Sequence 1218

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GTTTACCTAAGTCAAGTGTAATGAAAAACATAACCAATGCACCATGGGG  
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>Sequence 1219

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ATAAATATCTATCAAAATTAACCTTTAAGAGAAATACTCTCTTTCTTAA  
AGCCCTTATTTTAAAGACACTAGAAAATAAGTTACTATAAAAAGTGGTG  
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AGTTTTT

>Sequence 1220

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TCCAAATAATAAAGTGACATATTGGTGTTCAAAAAAAG  
AAAAAAGAAGTCCTTTTTTTTTTTNTTTTTTTTTTGTACTTAATAAAAA  
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AACC

>Sequence 1221

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>Sequence 1222

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CTTGTCCTTTCTGACTGGGCTGGAATACCTAAACTACGTGTAAAATGTA  
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>Sequence 1223

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GCAAAATTTAAACCTATTTAAGGGAGAGAGAGCTCTTGTAATAATTCATT  
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>Sequence 1224

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Table 2

CAAGGGTTAAATATATAACTCTTTCCGTCTTTTAATGGAACATTGCTACG  
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>Sequence 1225

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CTGTATGATCATCTTTAATATTATTATCAATTTTGTATATTTAAGTTAG  
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>Sequence 1226

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AGACACAAAACAAAAGCAGCGGACGTATTAATATGCAAAACACACAAAAGCA  
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>Sequence 1227

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TACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAATCTG  
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>Sequence 1228

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TGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCA  
ATAATGATTTCTTGATTGAAGGAATGAATGAATTA AAAAGGTTTCATCTTTG  
GACACAAAGGCAGACAAAAGTTTGACAAAAGGCATTTTGAAGTACTAGGAC  
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>Sequence 1229

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TCTTTCCCTCCTTGAATTCTAGTACTTTGTGAACTGTTGAGGTGTCCCTTC  
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>Sequence 1230

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TCCTAGATTAAAAGCTATATGTATAGAAGAACAAAGATTAGCTGCAAAAA  
GGAGATTGTTTGAAAGCGAAAACAGTGGGTATGGCAATACTGAAGTGGA  
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>Sequence 1231

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Table 2

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>Sequence 1232

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GGGTCGCCTTACTGGGCTTTTGGCCAGGGACTTAATTTTAAAACTAAAA

>Sequence 1233

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>Sequence 1234

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ATGGAGANTTCAATAAAACCTTTTCTTCCAGGGAGACAAAAAGAAAGTAC  
CCCTATGTAAAGGATGGGGATATTTTGGCCTTTTGGGTCCGAAAAAAGGG  
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AACTTTAAG

>Sequence 1235

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ATT

>Sequence 1236

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>Sequence 1237

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AACTTTTAAAGAGCTACTTTGAAATAACAGAAGTTCTTGATTAAATATTG  
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GCACTTTTTAAAAAATTAATTTCTCAGTATACTCCATTAATAATACCATTG  
TTTGTTAAAAAATTTTCATAGATATTACCAAGAAATATGGAAATTAAAT  
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>Sequence 1238

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Table 2

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CTTCTCCTGTTAAAAAATGACTGTTATTAACCTCCAATCTCATGTGGATT  
TGGGTTTACTCACCTCAGATTGGGTAGAACATCTGTCTTCAAAGAAAAA  
CGAGTGACATTCTTTGCAAATTCCTTAAAGACCCCGTAGGACAAGTATA  
TGAAACATTTAATAAAATCACTTCAGGCCCAACTGCTACTTTGCACTGGG  
AATTAATTGTCATACTATTATGGCCCAAGTTGGGCTGACACTTGATTCT  
CTCTGGAAATGGGACTAAAATTAACCTAAACCAGGAAAAACAAAGGACAT  
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>Sequence 1239

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>Sequence 1240

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GCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTCTTTTTTG  
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TCGGTAGTTTGATAGGAATAACATTGAATCTGT

>Sequence 1241

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GCTGGGCGTGGTGGGCGTGTGCCCCCTAATAATCCCAAGTTACTTTGGGA  
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TGGGGCCAAAGAAGTGAAGACCTTCCAATCTTCCATATAAATATAATATA  
AAATAATAAAAAATAAGAGGTAACCTTCGGGCCCGGCGTACCCACCGCCTT  
AAAGAGGGCCGAAATTTCTCAGGCAACAACCTTGGCCGGGGCCCGTTAA  
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GCGGTTAAATTCAATTGGG

>Sequence 1242

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GCTGGGCGTGGTGGCGTGTGCCCCGTAGTAGTCCAGCTACTTGGGAGACT  
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>Sequence 1243

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TCACAATAACAAAGGTGACCCCTGAGTTTCACTTCCAACTCTTTCTC  
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GTGGAACCGCTTTTGGGTTCAACCTTGACTGCTTGAAGAACTCCCAAGAA  
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>Sequence 1244

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Table 2

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AGTAGAAATACCACATTTTCAGAAACAGCTGGAGTAGACAGGTCTTCATAG  
GCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTGTAATTATACTC  
TGGATTCTAAACAATGAACACACAGTGATCTTTTTGACTTGCTGCTTGT  
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>Sequence 1245

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GTCGTACCTTAGGTTTTAGATGGACAGTACTTTGCATTTTTGCTTCCCA  
AATTCTAGGTAGTTGTTCTTTGGTTGAAGAGGATGGTAACCGGTACATC  
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AGGATAGCCTGGATTGGTTCAAGGGAGATGGGATCACCAGGGGTCCACA  
GGTGAAAACTTCCAACCTTTTTAAATTATACTTGGATGTTCTTGGTGGGAT  
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ATG

>Sequence 1246

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GAAAAAAGGCTCAAAGGGGCCAATAGGCTTGGGATAGGGGGTAGAAGGG  
ACCAGGTTCTAGCATTGGTTTCAGACCCCTGGGGGTTTCTTGGGATTGTA  
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>Sequence 1247

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AATAAAACCCTCAGACTTCTTAGAACATTATAAAGTCAAAAAACGTT  
GTCAAAAATTTGGCAATTAGTAGAATAAGTATAAAAGGGGTAAATCAGA  
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AGGGACATAAATTTTTTCATTTTTTAAAAAATCTTTGGAGATATTATC  
CTTAAATTTTTGGACACCTATTCAAAGATAAAATAATTTTTTATTTCTC  
CAATGGTGGAATTATTGGACCAAAATTAAATTTCCCAAAGGCTTTGGCTTG  
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>Sequence 1248

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TCGTAGTAACAGTCCATTTCTCAATCCAAACCCCTGAAGCTTCAACCC  
GGCGCAGTTCATATCTTCATAAATCCGCCCACGGGGCCTTTAACAATCCT  
TCATTACTTAATTCTGCCCTTAGCAAACTTCAAACCTTACGAAACCGCA  
CTTCACCAGGTTCCGCAATCAATAAATTCCTTCTTCAAAGGGAACCTT  
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A

>Sequence 1249

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TTTGGGTAAATTTAACAACCTGAAGTCTTATTGTTGAAACTTATTTTTAA  
CAAACTGTGCAGTTAAATTTGTATACGTATTCACATACTGAAAGATGAA  
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Table 2

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&gt;Sequence 1250

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GAACACAGCTATGTTACACGAGGTGAATAAGAACACAGCTGCAGCTGAAT  
AGAAGAAAAGGTATACGAATTGCTAAGGTGTGAACATTCCTATGACTGTT  
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CTCGCGGAATTCAGAGAAGGAAGCTTGCCAGGGATTTTCATATTCCTGGCT  
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TATCAAGTCAAACACTCCCTTTCCCGTTATTATTGAGAAGTTTTAATATA  
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CGGGTCCGGTACCTATGTGGAATCTCTGGCTATGGTCGCAAATGCTTGGG  
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TATCTCGTATAACTAGTCGCCCCGCCAAATTTGCGAACTCCTGCAGCCAT  
TAGAGGGTATCCGCTAGGGGTGCCTATATTGATGAAGCTGCCTTCCATTA  
ATATGCGCTGCGGCTGACTTGGCTCGCTTTTCAGTTCGAAACTCTGGATT  
GCCCCGATTTCATTAAAGAATCGGGCATAACGCGCGGTGGAGGGCTGTTCCG  
GATTG

&gt;Sequence 1251

ACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAGAACACTACGAGC  
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AGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTC  
AGCCTATATACCGCCATCTTCAGCAAACCCTGATGAAGGCTACAAAGTAA  
GCGCAAGTACC

&gt;Sequence 1252

ACCTATTATTATTTCAAATTTAAAAACTTCTTCTTTTTTTAAGAGATAGGG  
TATCACTATGTTGCCAGGCTGATCTTGAACCTCTTGGCCTCAGATGATCC  
TCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTA  
CAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCA  
GCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGTTT  
TTTTTTTGTGCTTTTTGTTTTTTTTTGAGACAGCGTCTTAGTCTGTGCGC  
AAGGCTGGAGTGCAGTGGCGCAATCAAAGCTTGCTGCAGC

&gt;Sequence 1253

GGTACTTTTTTTTTTTTTTTTTTTTTTTTACTTTAGTAGAGATGG  
GGTTTTACCATGTTGGCCAGGCTGGTCTTGAAACTCCTGACCTCAGGTGA  
TCCACACGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC  
ACGCCCAGCCTAAATATTTCTTTATAGCAATGCAAGGATGGCCTAACACA  
CTGCCTAAATCAAAATTGCTATTCACCTCAAGGGTATTATTACCTGACT  
AGCTTTTTTGGGTGCATTTGAACATAATGTAAATTTTATGGCTGATCAA  
TGTCATTACTATGAAGATACTCCCTATGAGCTCACAGAGTCAGGACAT

&gt;Sequence 1254

ACAGTCTTTTATCTTGGGATAAAATGGCTAGATGAGTATGGACAGGGAGG  
CAGGGCAGATACAGTCCTTGCTTCTGGTTTTAGAGTTCTTCTGAACCACA  
ATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTCAG  
ATCTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGG  
GAAGAAATGTTATTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTT  
GCACACTATTATCCAATTGGATAGACCCACATCTAAATGTCTGCAATTAC  
AGTAATGTCAGCTGGGCATGGTGGCTCATGCCTGTAATCCAGCATCTTG  
GGA

&gt;Sequence 1255

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TTTAGAATAACAAAAAATTTTTTACTAAACATAAAATTTCCAGAGGTTT

Table 2

CCAGACAAGCCATACAAAAGGGGCACAAGCTTTTTTGGAGGGGGGAATCT  
ACACTTGACAGCAATGTTATTAGGGAGGGCTGGGATGTTTGTTAATGTT  
CCCATTTAGGGTCCAACAATAAAGCCTGTTTACAGTGTCCAAATGA  
AGTTTGACTTGGCTTGAGCATTCTTCTGAAGACCTGGGTGGGTGGTTTA  
ACCCATGCAATTTGGATCCCCAAAAAGGGGGAAAGGGGCCCCCTGGTT  
CCTGGCG

>Sequence 1256

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GAGCTCACCTTTAACACAAAAAAGCAGGGTTGATGTATTTAAAAAAG  
GAAGTGAAATAAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCT  
AGCAGTCTTTCTCAGCTCACTTGGCTCTCTAGATCCACTGTGGTTGGCA  
GTATGACCAGAATCATGGAATTTGCTAGAACTGTGGAAGCTTTACTCCT  
GCAGTAAGCACAGATCGCACTGCCTCAATAAAGTTGGTATTGAGCACGTAT  
TTTGCAAAAGCTACTTTTCCTAGTTTTTAGTATTACTTTCATGTTTTAA  
AATG

>Sequence 1257

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TTGAAAATGAGAGGAAAACAAAATAAAATGATTTACATAATCAAAGGATT  
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GAAATCAGATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGCG  
GCAGCCACATAAGGCGCTGTTACACCTGGCTGTGTCTGCCAAGTTAGTC  
CTCAAAGAGAAAACAAGGAGGAAAAAGACAAAAAACAACCAACCA  
AACCAGTGTGCTTAAACACAGATCACCATCAGAGGTTTATTTACAGC  
AAGG

>Sequence 1258

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ATCTTTTTTTTATTTTAGCACCTGATAGCTGTCTTCTACTGAGTAAAGAA  
TTATAACTTTTAGATGTACAGAAAATTAGAGTATTTATTGTCAAAAAA  
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>Sequence 1259

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ATTATGAAGTGAACATAACCAACAGGCTGTTTGGAGAAAAACATACCTC  
TTCCTTCAAGTAAGTTTGCCATGCCTACCATATCTGTGAGTGGTATTCTG  
GAATGGCCAAATGGCCCTGGTAGGACTATGGGTCCTGAAGTCGTGCTGCC  
TGGCTCTGGCCACATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATAT  
TCAGAACTGCAGGGAGTTCCTTTTAGTCCTGGCAATCTGAACCTGATTTT  
TGCCTCATCCCCAGAATAGCTGCATAAAAAATGTGCAGCAGGAG

>Sequence 1260

ACTGGTGGGATTGTTAGACCATCCAAAAAGGAAGTGCACCTTGGAGTCT  
GTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAACAAGATT  
GCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAA  
GGCTCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCT  
AAGGAAAATTGCTAAGTCAGTGTTACTCTCTAGTGATGTTGAGAACTAGA  
GGGATTTCCAGACCTTTTACTTTTGATGAAAGGTTGTGAAGTGGTGGCTG  
TGGGTCAAATCCATCTCACAGATTTGTTTGGATCACACAGCA

>Sequence 1261

GGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTTGCCTCCTCTGACTAT  
ATTTTCAAATAGTCTGTCTTCAAGGTCAGTAATCTTTCTTCTGCATGAT  
CAACTCTGCTATTAAAGGACTCTGATGCATTCTTTCAGTATGTGAAGTCT  
TTTTTCAGCTCCAGAAATTTCTGCTTCATTCTTTTAAATTCATCTCTGTT  
AAATGTATCTGGTAAATTTCTGAATTCCTTCTCTTTGTTATCTTGAATTT  
CTCTGAGTTTCTCACTATTTTGAATTTCTGTCTGAAAGGTCACAACTCTG  
TTTCTTAAGGATTGGGCCCTGGTAACTTATTTAAATCATTGGTGAGGTA  
ATG

>Sequence 1262

GGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGACTTCTAGCTTAGT



Table 2

GAGAATGCAGTATACTTTTTGAAAACCTTCGTGCAGGAATCCCTCAAATGC  
TGTAAGTAGGAATGGGTCAAGTTCACGACTTTTCTTGAGGGAG  
TATTTTAATCGGACAAGGGAACCTTTTTCTTTGGGCAATGGCCAACAG  
GACTGAGAAGCCAGAGAGCTTGACCTGAGCCATCTCAGCCGTGAGAGTA  
ACAGTCCTAGGAAAATAGATGGGGGCTGGGGGTAAGGAAATGTGCTGAAG  
ACAGAGCTATTCTGGA

>Sequence 1263

GGTACTCTTTTTTTTTTTTTTTTTTTTTTTTTAGGGGTTTTCTTTGTAGAG  
ACAGGGTCTCACTGATTGCGCCAGGCTGGTCTTGAAGTCACTGGGCTCAA  
GTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGT  
CACCATGACTGACCTATATTTAATTTTTTAAAGATTAGACTGGTGTAGC  
TGTAAGTAGTTTGAAATACCTCTCTGATAGGTGCTAGCTTATCGTTACTC  
TTAGTGCTTCTTGCAATTTGCATAGTCAAACTTGATACTTTTTGTGAAC  
TTGAAAGCATGC

>Sequence 1264

ACTTTGTGTTTAAAGAGAAATTCCTAAACTGGATATATGTGGCAGGCTGAA  
AGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTGGCTCATG  
CCTGTAATCCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGC  
CAGAAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAA  
AAGATCTAAAATTAATATTAATATAAAATAAGGTTCTTGCCGGGACC  
ACGCTAAGGGCG

>Sequence 1265

ACCTTATTGTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCTATTTGG  
GCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTTGTTTCT  
AGACATCCTTGAATTACCAAAGAACATGAAATTTAGTTGTGGTTAAAT  
TATTTATTTATTTTCATTCATTTTATTTCCCTTAAGGTCTGGATGAG  
ACTTCTTTGGGGAGCCTCTAAAAAAATTTTCACTGGGGGCCACGTGGGT  
CATTAGAAGCCAGAGCTCTCCTCCAGGCTCCTTCCAGTGCCTAAAGGG  
CTATAGGAAACATAGATCCAGCCAGGGGCTT

>Sequence 1266

CCCTTAGCGGCCGCCCCGGGCAGGTAACACTGATTTGAGAAGAAAAG  
TGTGATTTGCTTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTG  
CCACTTTTTAGTTTCCTCAAACATGCAGAAGTAATGAGGTTTGACAGAGA  
CATGAGACTATAAGATGTCTGTCAATTGCTGCCAACCATGGAAAAGATGTT  
AAGATGTCCAGCTGCCCATAAAAATCATATTTTCAAAGTGTGAGACACGAA  
GAATATCTTTCTCTTATTTGGAAATATGCTGAAGATAGGAATAAAGAAAA  
GGATTACAGTAAAATGGAGACGAGAGATACAGTAAAGCAGAAATGTATAT  
GCC

>Sequence 1267

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGGTTCTGTAAACTTTTATTTTA  
CACTTATGGGCACTGCCAACTCAGGTGCCTTGGCTTCTTGAATCATTTT  
TTACAAAGGTTACTTTGTTTGAAAAGATGGTATGTTAAGGTTAGATAATT  
TGGAAAATATTTCTTGTCTAGGTAATACCCACAGTTTATCTTTACCCAG  
ATCCTATAAAATTAATAATGGCAACGTTTGTACAGCCCTTTTCAGAAAAA  
TCTTATGGACCTTTTCTTGGAAATTTTAAATAAAAAATGGCAATTTTTTTT  
TTTCAATTATTGAAAAAGAAAACCAAAAAGCCATTTTTTGGTAAAAAAA  
TAGGACCATATTTGGTTCTTTAACAACCAAAAATGGGGTTGTTGAAAC  
CCCTATTTGGGCCTTTTATTATTTTATTAAGGGGCCATTATTATTG

>Sequence 1268

ACGCGGGGGGCTTTGCAGATGTGATTAAGCAAAGGACCCAGATGGGGAG  
ATTATTTTGAATTACCTAGGTGGACTCCACGTCATCACAAGGGTCAGAAT  
CCAAAGAGATGTGAGAATGAAAAGCACAAGTGAGAGCAGTGGGATAGCCA  
AATTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTCTAGAAGCTG  
CAGAAGGCCGGGGTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCAC  
AACCTGCCCCTCACGGTAGACTCTCGATCTCCGGGCTGTAGAATAATA  
CATCTGTGCTATTTTAAAGCCACTGTTTGTGATTGTCTGTACAGAAGTTA

Table 2

TAGAA

&gt;Sequence 1269

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGAT  
TTAAAAAGCATTGTAAATTGTATACTGCAATGTCGTCTAACATGGCATT  
GGAACAAGGACATAATGTTTAAACATTTAAAAGTTGCAAATTGTTAACACT  
TAACCATATGGATTAGTGTAATGGCATACTGTTGACCCAAATTTTTTGTCT  
TTAAAGTTTAAAAATTACCATAAAAACTTATTTAACAGCTGTACTTAACT  
GGGAATTTAATGGTCCTAATTATAGACAAAAATACTTTGGAATATCTTGG  
CATTTTCCACAAACAATTTAACTTGGGCAGTTGCCTTTTTTTTAGCTTTT  
GGCTTTTTGGAGGTGGCCTTTTTGGATGTTGGTAATGGGCCTAATTTAAA  
TAAACGTTCCCGACTAGATTTTTTTGTCTTGTGGTTCTAACATA

&gt;Sequence 1270

GGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAACGAAGTATCCTC  
TCCTGAAATTATTAGGCAGCACTTGGGTCAACCACTCCGCCGTGACCCAT  
ACCAAAGCCGTGCGCTTGGGCACCGAATAAACACAGACGACTATCCAGCG  
ACCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTTG  
TTGCACAGGAGACTTCAGTGGAACAGGGCCTCCAATTCCCTCAACTGCAT  
TTTAAACCAGCTCACACCAAAGGGACGGGATTTAACCGGTAATTAGGTAA  
CAACTACAACCCATTAGTTACCTTGCCCCGGGGCGGTGCGCTTAGGGGC  
CGATATTTCCAGCACCACCTTGGTCGGGCCGGTTACTAA

&gt;Sequence 1271

GGTACAATTTTTAGTCAAGGGATTGTTTGATACTCTTTAAGTTCACTGCC  
AGGCCTACCACTTATCTCTGTCGAGGAGGAGAGTTCTGTAAATGAGAGG  
TTTTTAAGACGTCCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTT  
GGAGCTCAGGATATTAACTGAGTGGTGTCAAATATTCCCAGGATCAAAT  
CGACAATGCCATTGTGTTCTTGCCCCGGGCTGGCCGCTCCGAAAGGGCCG  
AATTTCCAGCACACTTGGCGGCCCGTTACCTAGTGGATTCCCAAGCTTCT  
GGTTCCAAATCTTTGGCGTTAATTCATGGTCAATAGCCTGTTTTCTTG  
TGTGGAAAATTGTTTATCCCGCTCACC

&gt;Sequence 1272

GGTACTCAATGTACATTAACATAGGAAAGGTTATATATACACTATACAC  
TTCAGCCTTGAAATGTGGACCCAAAAACATTCTATTTTTTCAGTAATCCA  
TTGAATTCGGTGAGGGTCCCACACCCCTCAAATCCTAATTTATCACAGCAC  
AAGCCCTTCCTTGCGTGCCAAGCGCTGGCGGAGAACTTTGTCTTGCTGCA  
GCTCTTCATGAATTGGATGCCAGAGTTTCGTGATGATCCTTTCAATGTTA  
ATAGCATAGACTTGCATGTGTAGGGATGACTTCCCTTTGCACCTGCTAAG  
GTTGATAAGAATCGGACCTGCACTTGGCGGCCGCTCTAAAGGGCTAATTC  
TAGAACACTGGCTGTT

&gt;Sequence 1273

ACTTTTTTTTTTATTTTTTTTTCTTTTTCTTTTTATTTTTTTTTTTTT  
TTTTTTTTTAATTTTTTTTTTAAAACAAACCCCTAAATCAAAAAACCCCC  
AAAAAAAAAAAAAAAAATAACCTTTCCCAAAAACCCCCCTTCCCAAAAACCC  
CCGGGAAAAAAAAACCCCAAAAGCCAAAACCCAAAACCCCGATTCCCCCT  
TTGCCCCCCCCCCCCAAAACCCCCCCCCGCAAAAACAAAACCTTTTTTTTTT  
TCTAAAACCCCCGGCCCCAAAAAAAACCCCCCTTTTAAAAACAAAAAAT  
TTACCCAAAACCCCAATAACCCCTTCTCAAATCCCAACAATTCAAAAA  
ACCCAAAC

&gt;Sequence 1274

GGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTCTGGAGGCTAGAA  
GTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGAAGC  
AGAATCTGTTCCATCCCTCTCTTCTTGTCTTCATCTGTTCTATGTCTGTC  
TTTGTTCAAATTTCCCTTTTATATAAGGATAGCAATCATATTGGATTAGG  
CCCAGTCCTAATGACCAGATCTTAACATTTGCAAAGGCCCTATTCTCAC  
TAAGGTCGTATTTACAGGTATAAAGGGTGTAGACTTTAACATCTTTTTGG  
GGAAGACACAGTTCAATCCGTAACAGATGGTTAGTCCTTCTCCTCTCTAA  
AT

Table 2

## &gt;Sequence 1275

CCCCTAACCGTGGTCCCCGGCCGAGGTCCATTTAAAAGGGGTTGCTTAAT  
CCTTTAAAAAGGTTTTAAATATTTGATTTAAAAAGCCCTTGAAAAATTGG  
TTTCCTGGAATGGGCCTTTTACAAGGGCATTGACCAGGGACATTAATGG  
TAAAAACAATATAAAGTTGGCAAATTTGTTTTACACTTTAACATTATTTA  
TAAGTGAAATGGGTCAAACGTTGACCCAAATTTTTGTTTTTTAAAGGTT  
TAAAAAATATCCCAAAAAAACTTTTTTACCCGGGGGTCATAAACCTTGG  
GAATTTTTATTGTCCTTATATATGGACAAAAAAATCTTTTTGGTTACACT  
GGTATTTTCCACCCAAATAATTTTTCTTTTTGCGGTGGGCCACTTTTTTG  
TGTTTTTTAGAATTTTATGAAGGATGTCTCTTTTTTTAGTGAGTGACCAT  
ATTTCTTTTTTTAAAAAAAACCCTTTCCTCTTATTTGATTTATAATA  
TCTACTGTTTGTTCATTATATATAACAAACC

## &gt;Sequence 1276

ACTATAAAAGGTTGAGTAAAAACAGGAAAGCGTGCTATAAGTTCAAATCT  
GTTGTATTACCTAAATTAGATTAAACCAACCTGAATTATAGTAGATTTTC  
TCAATAGATGAGGAACTGAAAAATACTATGTAAATATCTTCCAAAATGC  
TTTTTATACTTTTTTTATTTGTAATTTGGTCTATCTAAAATGTTCTGTTAG  
CTTAACCTTAATGGGCGTTATTGGATTATGACTAACGTTTCCTCAGTA  
TTGTAATGCTTGAAATATTTGAAAGAAAAAATGTTGTTTTTTAGTTGAAA  
CTGGTATATATAATTCAGTGCTTGGCAGGTTAGTATATTTTTATGCATTT  
TT

## &gt;Sequence 1277

GGTACCAACACAATTGTTAATTTCTCACAGGCTCAAGGCATTCTGGGAA  
GCTATACAGGGGACAGGAAGCATTTTGGGGAGCCTAAGGGGAGCCAGTTT  
GGAAGAGACAGCATTCTCCTGGCTAGGACAGGTGGTGGCGGTGGCCGGGT  
TTAAGGTTCTCCAAGGGACCCTTTGCAGATGCCGGGGCCCTGTTTATTCT  
GAGCACGTGAAGATGAGTCACATAGCTTGGTGGGAATGGCACGTGTGGAG  
CAAAGCCCTACACACACAATGGTGGTGTTTAACCAGCTTTATAGCGACTG  
TGTTTGAGGGGGACTGGTACATGTCACTAGGGGAACATGGTATAGGTGCA  
CCTGCTT

## &gt;Sequence 1278

GGTACTAAAACATAAACTGAGCAGTTTAAAACATTCATTTAAAGGGATAT  
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGAAAAATAAATGGCAACAAAATTCTTATATCTGCTT  
CTGCAGTTAATCTGTTTCAATTTGTTTTGGTTGAAGTATATGAAGGAAATC  
TGTCCTCACACAGTTGTGTAGTGAAAAAGGGGGACTATTGTAACAGGCT  
GTGCACATAAATTGTGGATGATTTTCTTTGATACAACAACAAAACCTGGGG  
GATG

## &gt;Sequence 1279

ACAATGTGATTTATCAATTAATTAAATTTGAATTCCATGGAATGAAATAT  
AAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAATCATT  
ATAATTTGATAATTAAATGGTCCTGAATGGTTAGCCATGTTCTCCGCATT  
TAAATAAATAGTATAAACATAAATGAAAAATTTAAAGTAATTTCAACGTG  
ATAGAGACCGCTTATTTTTAGTTCAGGTAGAGTTCCAACCTAATGGTAAT  
TAAGATTCCAGATCCGAAAGATGTCATGTGAATATTGCTCTGAAAAACCA  
AATTAAGCTTTCTTAAAGATGCTGTGTAGGGCTGAGAGGTTTTTCACT  
TGACCTCG

## &gt;Sequence 1280

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAATTTAATAAGAT  
TTGAGCATAGATATTAACCTTAGCATGGACAGAGAACTTATTTCTTGGG  
GGACTGGCATAGTGAAAGAACAGAATCAGTATGACCTGAGAGAGCAGAAA  
AACTTTACAACAGCTAATACTACTTGCTACATTGCTGTTGCTTTAAGATT  
TGAGGGAGGAGGTACTAGAGCCTGCCTGAGATCCTTTTGAGGTCAGTTTT  
GAATTTAAGCCTTTTCTTTTTTTTTTCTTTTATTAATTTGAAATTTAAAA  
TTATATTTTTGGGTGTTCTAATTATCACTTAAAATTTCTAATTTTTTCTT

Table 2

TTTTACTTTATACTTTTT

&gt;Sequence 1281

ACCTCTGACTTTCTAACAAATTACCATAAAGGAAGAATATTTTTTCGTCTA  
CTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACATGGCTAAT  
AGAAAAAAGAGCAGTTTTAAATATGTTTTATGTAACCTATTTTCATT  
GTTTTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGG  
TCTCAATTTCACTATGAATAAAAAAAAAAAAAAGGAAAAAAAAAAAAAGT  
ACC

&gt;Sequence 1282

GGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAGGTTTGTCAATAT  
TGTTGATCTTTTAAAGAACTAAAATTTTGTGTTGATTTCCTTTATT  
TTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTAGTATTTCTTCC  
TTCTGGTAGCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGT  
TACGCTGTTGAAATGAGATCTTCTTATTTAATGTATGCATTTATAGCTCT  
AAATTTTCTCTTAGCACTGTTTCACTGCATGCTCTAAGTTTGTATAT

&gt;Sequence 1283

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTAATTA AAAACCGG  
GACTTGGTGGGTTGCCAAGCTGGGCTTGAACCTTCTGGGCTTAAACAATC  
ATACTGGTTTGGCCACCCAAAGCACTGGGATTACCGGGCTGAACCAACAC  
ACCCAGCTTTTAAACCAAGTATTTTAGGGCAATATTACACACCTGGC  
CCAAGACTTACAGGGGGGGGAAAGCTTGGACTTTTGGCTTTTTTTTTT  
TTTGACCCAAGCACCTGGAACCTCCATTTCTTCTTCAATTACGTTT  
AAAATC

&gt;Sequence 1284

GGTACTCACAATAACAAGACAAATTTGACCTGTTCAATAAATAGAAATG  
AAGTGGCTAAAAATGTTTAAATGGAAGTGGAACAGTCGTCTTCTTTGT  
ACTTGGTCTCTACCTCAGATAATTCTTCTTTGAGCTTTTGAGTAGCTTCT  
CCTTTTTCACTTAGTCTACATGTATTCTATGCAGTGAGGTTTCAGATGC  
AGACAATCTTGACTGAAGCTGTTGACAATCTAGGTCTTTTTGATGAAGGG  
TTGCCTGAATATTCTTTTTACTCACAGATTCTTCATTATGTTTCTCT

&gt;Sequence 1285

CCCTTAGCTTGGTCGCGGCCGAGGTACTTTTTAATCTTATTATTAACTA  
ACCCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAA  
GAATTGCTCATATCTTCCCAAATTGTGTAGTATAAAAAGAATGCTGTCCT  
GGTTGTTTTTTGTAGAAATATGGAAGTCCCTGCAGTAAGTAGGCAACATGC  
TACCCTTCTATTCAACACAGCACTAGAACAAGGCAAGTGGGACCTTTGTC  
GACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGACA  
CCTGCATCCACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTC  
TCTAGGCCATACCCACGTAGCATCTTTCTCTAATGGT

&gt;Sequence 1286

ACACAGGATGTGATCAACAAAGTTCTATTTTACAGGAGTATGATCCTGTC  
GATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCAGCTGTTT  
TCTTGACAGATCGAGAGTGAGGGGTATTTTGTGACATTACACAGCATCA  
GGAGCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGCGAAA  
TTTATTAAAGACAGGAACACAGTCAATCTGTAACCTCATAGTAGCTCTACG  
TTTACTTGAATCCACAATCCCTAACCCATCTGTCCCTGGCAGAAAGAAG  
GAAAGATGACATGCATGGACAGTGAACAGAAAGGGATGAAAGCCAGGATT  
CCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGTCACAACC  
TATTACTATGTCTAAAAACGACAGAGCAGAGAGCCAGAAAGAATAAGCC  
TGAAGTCACTCCACTCAAAAGCAGCCAACTCCCTCAAAGGAGTAACTT  
TTAAACCTGGATCTAAACCTGAAGGGGCTAAAAAGTGTCTGTTTCTGAG  
TTTTCTTCTTAAAGTCTATGAAGCAGATGAACCTACATTTTTATTGCCA  
TTTCATATCAAAATGTGGGTGGTATAACCTTAGGATTTCAACAGACTTTTG  
AAGTGTGGACTAAATATTGTCCTTCGCCGCGACACGCTAAGGCGAATTCA  
ACAACCTGGCGCGGTACTGTGGACCGAGCTCGTACCA

&gt;Sequence 1287

Table 2

GGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTGCTTTTATTTCCA  
GTTTCTTGGACCAGAACAATAAAATACATAAGACATCGTTTCTATATGGT  
CATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAATGAGTAT  
ACAGACCTTTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTGTTTT  
TT  
GATTTTGTTTTTTGTGTTGATTGTGGAGTAGGAGAAATAGTGAAATTTGA  
AGGTAGAGG

>Sequence 1288

GGTACCTTGTGCAGACCGCTACCTCATCCTGTGACTTAGAATGCCTAAC  
CTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCCTT  
CTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGG  
TCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTCAGTGACAGCAAG  
ACTGTTGAAGAAAAATAAATCGAATGGCCTTGAGGAGCTATTATCAATA  
AAAACAGTATAACTTATAATTATCTGTTGTGTTACAATGAAGTATATCAT  
CACTGCT

>Sequence 1289

ACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGTGTATTAGTCCATTTTCA  
CACTGCTGATAAAGACATAACCCGAGACTGGGTAATTGAGAAAAAGAGGTT  
TAATGGACTCATAGTTCCATGTGGCTGGGGAGGCCTCACAAATCATGGTGG  
AAGGTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGC  
CAAGCAAAAGGGGAAACCCCTTATGAAATCATCAGATCTCGTTAGACTTA  
TCCACTACCACAAGAAGAGTGTGGGGGAAAGCACCTCCATGATTAN

>Sequence 1290

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTG  
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTTTG  
CAAATCCCAATTCCCCAGAAATGGTCCTCACCTCATTGACATATGCAGGA  
AGAGCCAAGGGGAAACAGCAACTTGAAATGACTATGACAGACTAACAC  
AAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGGAGAGGCCTCT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCAG

>Sequence 1291

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTCTGCG  
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTTTG  
CAAATCCCAATTCCCCAAATATGGTCCTCACCTCACTGACATATGCAGGA  
AGAGCCAAGGGGAAACAGCAACTTGAAATGACTATGACAGACTAACAC  
AAAAGACAAGAAATGGCTCTCATGGAATGTAGGTGGAAGGAGAGGCCCTT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGATCTCTTGGGG  
TAAGGGAGCCACTGGTCAAGAATAGGCAGC

>Sequence 1292

GGTACATTTTTTCTCTCTTTTTTTTTTTTTTTTTTTTAAATTCTGAGATTT  
CCCCAAGCTGTGGATTCTTCTACTCCTTAAGAAAAAACTTTGGGTTTA  
TTAGCATCTACACTTTTGTGAGTTGTGTCGCTGTTTTCCACCCATTTTA  
TTATACTCTTAAAAGATGTAATTGTTGTCATTTTGAACAGTTAAACATCT  
TTGGGTATAAAAAGAACCCCAATGGTTATGTTATGCTTTGTAAATTTTGT  
TTTTTTGGTTTTTACCTAAATAAACTTTCAGCTAATCATATAAGGAAAGAG  
ACTGTCTTTTTT

>Sequence 1293

GGTACTACCTGTTTAAGGACATACCAGAAAAAAAGTATTGATTTTTATCC  
TATGCTAAACAGTGCTGTGATAACTTTTGTATCACTTGGAGAATGCTCCT  
GAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAA  
AGGGAAATTTCACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAAAT  
ACAGTAAGTCTTTTAGTCAGATAAAATTAATAATCTTAAATTCATTCAT  
GTTAAAGAAGAAAGACAATTAAGAAATCTGACACTAATCAGAAGAAATTA  
GAAAACGAATAAGTAAAGAATCTGAAAAGGAGAAATAAAAA

>Sequence 1294

GGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTCTGGTTTTGTGTG

Table 2

CTTCACTGTCTTCTTGGCATGAGCTATGTTTTAATTTGGAAAGAGTAGGG  
CCGCTTCAGAGCCTCCTACAAAAGTGCTAGGGCCAAAGACTTTCTTAGCT  
TGAACATTTGTATCTGACTAAAATTGACTTGGGCAGCGCTTTCTGGAAAA  
TGACTTTGTTTTTGGCCTTTTTCTGGTGGGTGGCCCTTATGAGTCGTTCT  
TCGGTTTTTCTTTCAACAATTTGCCCCCTTGAAAAATGAATCCACCAT  
GGTGTGCAACCTGTCTTTTTTTTTTGGACTAGGCCCAATATCACCTGAT  
CAATGGTAATTTTTTTCCTCTTCTTTGGGGGGCCTTCTTTCAATGAAAAC  
CCAAATTCCTTTGGCCACCTCCAACAATTTCTTTGGGCCCGGCCCTTT  
CCTTGG

>Sequence 1295

ACGCGGGCTCTCTCCATGGGTCTGTGTTCCAGAAAGCTATGACTCTTTAA  
TGCATCTCTTAGTTTTTTCCTTATTTCTTTATTCTTAGTATCACAGTCC  
ATGATATCCACTGTCCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTTA  
AATCAAAATACCCTATTTGTTATTTTTTAAAAAGTAAAGTGGGGATGAC  
AAGTCAAGTGGAATTTATCCCAAAAGAGTGGGGATTACTGTGACTATCT  
GAGGAGTTATACTTGATTTTTTGTCTGATTTAATGGACTGTAGGATCT

>Sequence 1296

ACAATGCACATGCCGAAAGACCTTAATTTTGGATGTGATGAAATGTTTTT  
TATGCCTGGAATAAATGCCTTTCTTTGGGATGTAACCTTGCTTAAATAGTA  
TTTGCTCCTCATCTCTGTGAGTTACTTTAATTTTGTCTCTGAAGTAAG  
CTATGATATTCTGGCTTTACTAGTGGTGACTCATCTATCTGGGTAAGAAT  
AGACTACATACTCATTTTGGATGTATTTGATTTTAAAGTTTGTAACTGG  
TCCACTATTTTAAAATATTGTAGAGTGCTGATTACTTCCATTTGGGCCAG  
TGTAGCACCTGTGTTTATCAGGTAGGTAGATTGGATANTTGAATTTGGA  
ATATTAATCTATAATAAACCAATGGTTTTACAAATGCCTTTATAAATC  
TAACATTGCGCTTCATCTAGATAGAACTTTCTGAAAGTGCTCCTGTCTC  
TACTTGGTGTATAAAAGGGATGACATTTCTTACAGACCAANTATATTGTT  
CGTTACTAGGATATTATCTGTGATCATCGTCTCGTTCGTCAACAAGGAA  
AAGAATTCCATTGTTTAAATGAAGAACTATGTGGATTAGAAGAGNATAAAG  
ACAACCGTCACAGGGGTGCGATTAGTAAATTGAAATGAGACATGGAGCAT  
ATTTAAATGTCAGAAGATGTGTGAAATGTAAATCCATGACTACTCGGTG  
GTCGACTTCCGTCGTTGTAATATCCCACATACTGTAGTGGACAAGTTTAT  
CATAGCAGAACAGTGACGGAAATAGTCTTCGAGTCTCAGTGAGTAGCTAA  
ATATCGCACCTTGTCTATCGAACATGGAGAATCATGATCAACTAGGATG  
AAATATTATCGTTGGTCATTGAAGGGACACTACATATTGAGATGCATGAT  
ACG

>Sequence 1297

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGAT  
TTAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATTGG  
ACAGGACATAATGTAAAACATAAAAGTGCAATTTGTTACACTTACATATTG  
ATAGTGAATGGCTACCTGACCAATTTTGTCTCAAGTTAATTTCTAAAA  
CTATTTCAAGTGTCTACTGGATTTATGCCATATTACACATTTTGATATTAT  
ATACCTAAATATTACTGGCATATTTTTTGTCTTTTTTTTGTGGCTTCAT  
ATAGTTTACATTT

>Sequence 1298

CCCTTCGGCCCGCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCC  
TCTTGCAGAGACTGCTCCATTCCAGTAAAAGGTGAAGGTTCAACTGGAGA  
CCTCCAAAGTTGGCTGGGCCTACGGTTTGGGGTAGGCAATTGCTGGATGA  
GCACAGAGAGGGGAAAGATTTCATGCCATGGTGATAATAAAAAGGCCACC  
TGGGGTATGATATTGGGGACTAACGCTTGTTATCCCAACGCTTTGGGAG  
GGCCAAGGTGGGCGGATCACGAGGTTTAGTTTTCTAAACCAGTTTAGGT  
CAACAATTGTGTAACCCTGTATATTTCTTATGTTGCTAAAAAAAATAA  
T

>Sequence 1299

GGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCGGGCCTGGTGGCT  
CAACGCCTGTAATCCCTGCACTTTGGGAGGCCGAGGCAGGTGGATCACGA

Table 2

GATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCTGTCTCTA  
CTAAAAATACAGAAGAAAAAAGAAAAAAGGTTCTTTGTTT  
ACTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAA  
AAATGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAAT  
TTTTG

>Sequence 1300

ACATACAAAAAATCATTAACTCATATATTTCAAGAGTAGGAAATGGGAA  
CTGGTGTTAAACTCTTATAACATATGTCACTGTCTTAAGGGACAGTGTT  
TAAAAACGCATACCTGGCCGGGCGCGGTGGCTCATGCCTGTAATCCCATC  
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>Sequence 1301

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GTGAATGGCAACGTGACCCATTTTTGTCTGAAGTTAAATACCAAAAACT  
ATTTCACTGGTCTCTGGATTTATGTCTATATTGAAATCTTGGTTACTGT  
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>Sequence 1302

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CTGAGCTGGGTCTGGTAGCAGCTGGTGGTGGCGCACTGGGGCTGACTGGT  
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>Sequence 1303

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>Sequence 1304

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CGCCATCTTTATTTAAGAAATCTTCCAATCCCCGGGAAAGCCGTTAGC  
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>Sequence 1305

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Table 2

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>Sequence 1306

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>Sequence 1307

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>Sequence 1308

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>Sequence 1309

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Table 2

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>Sequence 1310

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CGAGT

>Sequence 1311

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Table 2

## &gt;Sequence 1312

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TCCAAGAATCATCCACGGAAGGATGTCAGCCATTTAACCAGGGCTACGGA  
TCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTCTCCTGAAA  
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## &gt;Sequence 1313

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GGCATAACAAGGCCATAACCTTTTCTTGGGAAAAATTTTTATCCCCCA  
CATTTCCCCCACTTACTGCCCGGAACCATAAATGTAAACCCCGGGGGC  
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## &gt;Sequence 1314

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ATCAAAGCTAATAATACTGTGTTTTCTTACTCTTTATTTGCCTCTAAA  
GACATCCACACATAGTGGTGAAGTATTTTTAATGCGTTTTAAATAACAA  
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## &gt;Sequence 1315

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TTGTAGAGTTTATTTTTGTGAATATAGTGAGTGACAGATGGCAATTACA  
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## &gt;Sequence 1316

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GGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTAAG  
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## &gt;Sequence 1317

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Table 2

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>Sequence 1318

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>Sequence 1319

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>Sequence 1320

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>Sequence 1321

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Table 2

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>Sequence 1322

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GGAGGGGACCTCCTGCCACAAAGAGTTTCGTCCAGACGAGTCGTAGCAG  
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>Sequence 1323

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>Sequence 1324

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CAGTAGGCAATGTAAAAATGTTTTGTGTGAATTTATGTGAGTTATAATT  
CTAATTCATGTCAATATTCACCTCAGATTACCACATGAAAGCTCAGTCA  
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>Sequence 1325

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Table 2

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&gt;Sequence 1326

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TCTGAAACAAACAAAAGCAATTCAATGTCAATAGACATTAAGCAACATAA  
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ACTGTGCTTTGGAAGATAAGCTCTGTCCTGAATCCAAACCAAGCT

&gt;Sequence 1327

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CATCCTCTCAGTATCTACAGTTTAAACCTGGTGGATTGATGGAGTACCT  
GCCCC

&gt;Sequence 1328

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GGTACCCTCGGGCCCCGCTTCTAAGAACTAAGTGGGAATTCCTCCGGGG  
CTGGCAGTGAAATTTTCGATTATCAAAGCCTTAATTCGAAATACCCGTCC  
AACCTTTCGGAGGGGGGGGGCCCCGGGTAAACCAAGCTTTTTGGTTTCCC  
TTTTAGTTGAAGGGTGTAATTTGGCCGCGCCTTTGGCGGTAATTCATGGG  
TCAATAGGCTGGTTTCCCTGTAGTGGAAAATTGTTTATTCGGCTCAACA  
ATTTCCACACAACCATTACAAGCCTGGGGAGCCATAAAAGTGGTAAAAG  
CCCTGGGGGTGGCCTAAATGAGTTGAGCCTAACTTAACATTTAATTGGCG  
TTGGCGCTCACCTGCCCCGCTTTCAGGTCTCGGA

&gt;Sequence 1329

ACAGAAGGTTTGGGATTGAGCATCACTTCCAGAGATGTAACAATAGGTGG  
CTCAGCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGCGGCCATTC  
AGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTA  
GATTTAGTGGGCAAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAAGCAC  
CAAGATGGAAGGAAGTGTGAGCCTTCTGGTCTTTCGCCAGGAAGACGCCT  
TCCACCCAAGGGAAGTGAAGCAGAAGATGAGGATATTGTTCTTACACCT  
GATGGCACCAGGGAATTTCTGACATTTGAAGTCCCACTTAATGATTCAAG  
ATCTGCAGGCCTTGGTGTGAGTGTCAAAGGTAACCGGTCAAAGAGAACC  
ACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGCAGCA  
TCTAAAGATGGAAGGCTTTCGGTGAATGATCAACTGATAGCAATTAATGG  
AGAATCCCTGTTGGGCAAGACAAACCAAGATGCCCTGGAAAACCTAAGA  
GGTCTATGTCTACTTGAGGCCATAAACGAAGAATGATCCCGCCTTCC

&gt;Sequence 1330

ACCGTGTTTTGATAGTTGACTAACACTGACCTGTAATGGTCTACACCCT  
CTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTCCCTAAGTG  
TGAATTTTCACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCT

Table 2

GAACACTCGAACTGGACTTCCTTTTCTGAATTGACCAGTCAAAGAGAAAAG  
GAAAAGAAAAAAATATGACCGG

>Sequence 1331

GGTACTGTTTGCATTAATAAAATTAAAGCTCCATAGGGTCTTCTCGTCTTG  
CTGTGTCATGCCCGCCTCTTCACGGGCAGGTCAATTTACTGGTTAAAAGT  
AAGAGACAGCTGAACCCCCCGCTACCACTGTAATCATTATCCCAATGT  
TATGATTACATTGACAGATAACTCCAGTTTTGCTAACCTGAACTGATGTT  
ATGGCCATAATATGTTGTTGATTATGGCAAATGGTGATGTGTGAGTTAT  
GATCCTGTTTTTCTCACAATGGTGGTGGAGGCCGGGAGCTTATATGTTTA  
TTTATGTATGAATGACGATAGTAAGAGATGGCATATAATCACCAGACTGA  
TCATATTGGATTCTTTGGGGAACGGAGCCGGAAGGGAGTAAACAGAGAAG  
CTTGACTCTTTATATATCTGTAATCTGCGGCTTTTACAATGAGCATGGT  
ATTTTAATATTTTTAAATATCTGATTAAGAACTTATGAAAGAGCCGNT  
TTTGAGGTTTAGTGCTAAAAAACAACCTTAAATGTTATTCTTAAACAATGC  
AACTAGTCTGGGTGAAAGAGACCATAAGGCGCTTTAAAACCATCCATTGG  
ACTCAGGGAAAACCATGCTCCCAGGGGGGAATGAAATCTAGTGGTCCTTT  
AGTAAGTCTTTAAAAGACCCTTCAAAAAATTTTTGTGTTCACTTTATAG  
TAACCCACACCCTCTTCCCAAGATTGCCTAAAGGGGTGGGGATGGTCGGG  
CTTTATAATATTTTCGGCAATGGAATTTGTGGATAACGTTTGAACGGGAT  
AATCTTTGGG

>Sequence 1332

ACTGGATTTTTGCAAGCCCTCTATTTAAAATTCCCCAGAAATTAAATAAG  
GAGGCTTTGGAGGGAGGAATGCCCTAGACAAATTGTGGAGTGGGTTTGT  
TTGTTTATGGAGATGGTCTTTAAAGTCTAAATTGTCCCCGTTTTATTTT  
GCCCAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTC  
AGCCTACAGCTTTTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTT  
CCATTTTATAGCAAAGAGAGAAAGCGGAAAAATATACAAACCTCGTACCTC  
GGCGCGCGACACGCTAAGGGG

>Sequence 1333

ACTTAATTCATTCTACTTTGTGTTAACTATCTTTTTATGTGTAGGTCTCA  
TCACCCCAACCAGACTATAAATTCCTTTGTCAATTATTTAAATCCATGCAT  
GGAATCCCATAGACATCAACCAATCACCATAGACAAGCCTTAGAACAT  
GTATTACAGGAAAAATAGAGTAACACATACTAATACAGAGGAAGAAC  
AATTGACATTAAAGTAGAAAAAAAATTAACACTCTTGGAGTCTATAGAA  
AAATGTAAAGAGAAAGAGAATTGAAGATAATACGTCAACTTAGAAATATT  
TAGTTTGCCTGCTTCAACATCAATAATAAAGCATACTAGGAAAAGTGGTC  
CTTTAAAGCGATTGTTACAACCTCTCTGAGGTGCTGGTTTTTGATAAATT  
TTCTTGGCCTGAGACTGAACTTTTATTCAGCGATTGGCTGGGTAAGAGA  
ATCAATTAAGAGATTAATGCATCGCGCCATAAACAGAACTGCCGTGGT  
GAGAGGTAACTTTGTGACATTGTGCTAGGTTTTCATATGGGGTGTGTTAA  
GGGCTGCAAATAAATGTTTAGCATTGTAG

>Sequence 1334

GGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAAAGAAATGAA  
TATCTAATGTATAAAACAACTCCAAGTTAGATTTCAAAATCTTGCAATCA  
TTCACATTTGTGCTTCTTTCTACACAGCTGTCATTTACATTCCTAGGCTT  
GTATTTCACTATGTAAAATGGGAATTTAATCTTTATAAATGAGGCATTTA  
TGTAATAAAAAAAAAAAAAAGT

>Sequence 1335

ACAATAAACAGCCAAAGAAAATAACCAGTTAGCACTTAAATAAGAATCT  
ACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATTTATATATT  
TTTTAAATGACTGAGCTACAGTACC

>Sequence 1336

CCCTTAGCGGCCCGCCGGGCAGGTACATCTATCTGACCCCAGAGTTACCC  
TTTCTATCATGCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGA  
AAGTCTAAGGTTTTATCTAGGATTGGGAGTTACCCCAACACCAGCAGGA  
TGCAGGAAAAAGTAAGTACCGGATGGTTGCCTCAATCTGTTGATTCTTC

Table 2

AGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGAGCCAAAGATT  
ACGTATTGAACTCTACCAAGGCATCTGGTGACTAGAAAACCTCGGAAGG  
TGGTCATAGCAGAAATTGTTGGGAAAGTTCTCAGCATATTAAAGAGAAA  
TTTTTATTTCTTCATGATCCACTCCTACAGGGAAAAATAAATGGCAAAT  
GAACCCATGTATGTCAGACTCTGTAATAAACATCAGTGAGATCACAGTGT  
CAAGAAATTTACAGCCTGAATTAAGATACCCCTTGCTCTCTTAAGAAAGAA  
ATAGAGTTAGAAATTGTCCCTTGGCCCGACCACCCTAAGGG

>Sequence 1337

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAACCTTATAAATAAAAAAG  
TGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAAACTGA  
GCATTTTCCATTTTCTCCTAGATTCTTAGGAAGCCTTTGTATCTGCGAT  
ATAAGTTACTTTCTCCTTCTTTGTCATGTTGTTTAACTTTGCACCTTTCTT  
TTTAAAACCTGCAGTAAATTTTAAATCTTTTCATTCAGTGCTTCTGGTTT  
TCAAATCACATACAGAAAGAATCTCCCGAGTCAGAGGGTGTGACCACAGT  
CTGTTCTGGTGCTTCTATGGCTTCATCTTTCACATTTGAATCTCTGACGT  
AGTTGGAATTTATTCTGGGCTATAAGGACCCGACTTTATTTTAAGAACAA  
AATTTTTTTAACAAATGTTAACTTAACTTCCTAAAGGCAGATTATTACT  
GGGACCATGTGTGACTNGCATGTCTATGTTTGCTTAGGAACATTCTTCCA  
GAAGAATTTGCAATGCTGAAAGGATGATGACTCAGATCGGGACATCTTCA  
TCTTGAAACATTATTGTAATATAGN

>Sequence 1338

GGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAATATGAATTTCTCA  
CCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAAATC  
TAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAA  
ACATATCGGCTAAAGTTAAAGAGGTATTATTCTGTTTTCCATAAATTGA  
ACATTGGAATAAAAGTGCAACAGAGTTTTCTTAAATCATTGTTCTGCTCT  
TTAACAAAAAAATATTGTAAAGGGTTATAAAAGGTTTATAAGAATCTTA  
CCTTATGGACAACTAACTAAACTGAATGGATTTGTAAAATGCTATTAA  
ACTAAATTAAGGCTGGACGTGGTGGCTCACACCTGAATTTAGCACTTTG  
GGAAGCCGAGGCAGGCCGATCACTCTGATGTTACGAGTTTGAGACTAGCC  
TGCCCCTATGGTGAAACACTGTTCTCTAACAATATGCGAGCGTGTGCG  
GTCGATGATGTCCAGCTGCTTGTAGGATGCGCTAGAGAATTGCCCTAA  
CTGTTATGCTTTGATCGTGTCTTCTN

>Sequence 1339

ACTAAAAATTTCCACTATCAGAAGATCCTGATTAAAAATAAAGAAATACAT  
AAAACCTCAACAGTAAGTCAATGTGATTATTTGTTTCATTTTCAAGATC  
TATGGGTCCCCTGCCCCGCCACACGTGTCTCCTGGTTCTCAACGAAGTGT  
GACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCAAAGT  
CTGCCTTCGTTGCTCCCATCTTCAGTGCAGCAGCAGAGCCCTGCAGCATT  
TCATCACACCCAAGTCCCTGCATATGGATCCCAACCACCTTGTCTTACTT  
GGTGGCACAGACCATTGTGATCACACCATTGTGGGTTTGCTTTTGGTACC  
TCGGGCGGGAGCACGCTAAAGGC

>Sequence 1340

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT  
TATCTACCTAGAGTAAATTTTGGCAATTTGCATTTTCTCAAAATAGTTT  
TTGAATTTATTGTGTAAATTTGCTCAAAATAGTCAATTTAAACAAATTC  
CTGTTTACTATTTCCCCCTTGTCATTTAAATTTTGTATTTGTGCTTCC  
TCCCGCGT

>Sequence 1341

ACTTTGACTATTTTTTAGCAACAAATTACTTTTGACACACAGCACAATTG  
ATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTA  
AATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCT  
CTTAGTAAAACTATTGTGACACTTCCTTCTTCTCCAAATATTTCGGCCT  
GGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCTACGGAAACAACAACCTTTCTTGCTTATATTTAACAAAACTAGTA  
TAGATT



Table 2

## &gt;Sequence 1342

CGTACTATAGGGAGTCGACCACGCGTCCGGTGGTACGTGGTGCGGGATCG  
AGATTGCGGGCTATGGCGCCGAAGGTTTTTCGTACGTACTGGGATATCCC  
CGATGGCACCATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA  
GCGTCGCTGGCCTGACCGTCGCTGCCTACAGAGTCACACTCAATCCTCCG  
GGCACCTTCCTTGAAGGAGTGGCTAACGTTGGACAATACACGTTCACTGC  
AGCTGCTGTGCGGGGCCGTGTTTGGCCTCACCACCTGCATCAGCGCCCATG  
TCCGCGAGAAGCCCGACGACCCCTGAACACTTCCTTCGTGGCCTGCGC  
CGAAGCCTGACTCTGGGAGCACGCACGCACAACACTACGGGATTGGCGCCGA  
CGCCTGCGTGTACTTTGGCATAGCGGCCCTTCCTGGTCAAGAATGGCCGGC  
TGGAGGGCTGGGAGGTGTTTGCAAACCCCAATGTGTGAGCCCTGTGCCTG  
CCGGGGACCTCAGCCTGCAAAATGCGTCCAGAAATAAAAACTGGGTCTGG  
GTGCGAAAAAAGGGCCGG

## &gt;Sequence 1343

CGTCTTATGGAGTCGACCCACGCGTCCGAATGCAGTGAAAGTGACACTGC  
CTGACCTTCAAGACTAGATCATCAAAGGTGCTACAGCTTCTGCTTTGGCT  
TACCCTCTCTGTCTGGGACACTACCCCTTGGACCCAATCTCCACACTGT  
GAGAACTTCTATGCTACCTGGAGAGGCCTTCTATAGATATTTAGTCAAC  
AGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCCAACATGTGGGTGAG  
TGAACCCTCAAATGATTGCAGCTCCAGCCTTTGAGTCTTCCAGTTGCGG  
TCCCAGTCATTGAAACAGAGTCAAGCTGCCCCCGCTGTGATTTATCTGAA  
TTTCTGACCCACTGGGAGCATAATAAATGATTGTTTATGTTNAAAAAAA  
AAAAAAATAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGG

## &gt;Sequence 1344

TGTACTATAGGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGG  
TGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAA  
AGGAGAGGAGGGAGATGAGGTCAATTGTTTGTCAATTGAGTCTTCTCTCAGA  
ATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCCATGGCAGGGTC  
CTTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTCCA  
CCTCTCACCCACTCTCTCTAATCCCCCTACTTAAGTAGGGCTTGCCCCAC  
TTCAGAGGTTTTGGGGTTCAGGGTGTGAGTCTTCCCTTTGCTGTGCCCA  
GGTCATCCCAAACCCCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTT  
CCTTCTTTTTCTTGGAACACTGCCCCCTGTTCTTCACTGCCCCCATGC  
CTTAAACTCATACAGATTGTCCATCATGGGGGGCATGGGTGGAGCAAAAG  
GGCTTCTTAACCCCGGCAGGCCAAGGCAATTGGTAAAGGAAGCACTTGC  
CCCCCTTCTGGCCCTTCTTAATCTTTAATAAAAAACCCGGCTTCTTAT  
TTTTTAAAAAAAACCTTTTGTACAAAAAAGGGC  
CGCCCCCTTTGACTTATCTTAGAGAAAAAACATTTCCAACCTTCCCTT  
GAACCTTGAACCATAAAAGAAATCCATTTTGGTTGTAACCTGTTATTTG  
CACTTAATAAGGGTTCCAAATAACAATATCCTTCCCAATTTTCCATATA  
AGCCATTTTTTTACTGGCTCT

## &gt;Sequence 1345

ACGCCTTGAGAGCCTAGGACACGGCCCGATATTACTGTGCGTTTCACAAT  
CGGGCCCTCTACTGGGGCCAGGGAGCCAGGTCACCGTCTCCTCAGCCTT  
CACCAAGGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCT  
CTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAA  
CCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGACAC  
CTTCCCGGCTGTTCTACAGGCCTTAGGACTTTACTTCCTTAACAGCGTGG  
TGACCGGGCCCTCCACAACCTTTGGGCACCCCAACCTACATTTTTCACGT  
GAATTACCAGGCCATCAACCCCAAAGGGGCAAGAAAGTTGTGCCCAAATT  
TTTGACCAAGATGATACATGCCACCGGCCCGACCCCTAACCTCTGGGG  
GGGCGCGCAGTCTTCTCTTTCCCAA

## &gt;Sequence 1346

GGTACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAGATAG  
TTCCAAAACCTTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG  
GGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACT



Table 2

TCCATTTTGTGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGA  
GGTATTAAATTGGCAGGACAAAATCATAGCTAGAGATAAAAATTTAGAGT  
TCACCAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGG  
GATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACT  
TCAACATTGACAGGCTCAACAGAGGAGAATTCCCAAGAGGATGAGGTTCC  
ACCTTTAGGACCGCCAAAGAAGACTTCCCAGACAAGTACCTGCCCCGGCG  
GCCGCTAAAGGG

>Sequence 1347

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT  
TATCTACCTAGAGTAATTTTGGCAATTTGCATTTTCTCAAAATAGTTTT  
TGAATTTATTGTGTAAAATTGCTCAAAATAGTCAATTTAAACAAATTTCC  
TGTTTACTATTTCCCCCTTGTCATTTAAATTTTGTATTTGTGCTTCCT  
CCCGCGT

>Sequence 1348

GGTACAAATTAATCTGTAAATATTGCTTTCTATTAAAAGGGTGTGGTTTTT  
TTTTTTGT  
TGGTTCAGCTTAGTGGTTCTCAACCCTGGAACAACCCGTAGACCCACCTG  
GGGAGCTCTTAAAATTATCAGTGCCTACCCACCTTCCAAGATTCTGATT  
TAAATCCTGTAGT  
CCGGGCGGCCGCTAAAGGG

>Sequence 1349

CCCTTAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGG  
GTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGTAACATTAATTTTTTTTTT  
TCCCCCCTAATGGGCACGGGGTTTAAATCCCAAATTTTAAATTTTGGGA  
AAAAAATTTTAACTTTTAAAAACCCCGGGGGGGTTTTTTTTTTTA  
AAAAAATTTGTTAAACCTATTTTTTGGGGGGGGTAAAAATTTTTTTTTT  
TTGGGCCAAAAAATCCCCCCTTTTTTCCCTTTTTTAAAAAACGGAAG  
TGGGGCCTGCTTTTTAATTCACCCTTTTAAAAAATTTCTGGAGGGTTTC  
CCAATTTTTTTAAGGAAATTTCCCGTGGAAATTTTTTAAAAAAGGGAAA  
AAAAAAGGGTTTTATTTTTTTGTAGGGCCCCACCCAGTTGGTGGGAAA  
AGCCCTTTCCCCAATTTTTTCCCCCTGCGGGGCAAAAGGTTTTTTTAAAA  
AAAAAATTTTTTTTAAAAATCTTTTAAAAATTTGGTGGTTTTGAAATTTAA  
CAAACCGTTTGTAGCCCCCTGTAAATTTGTTCCAAACCCAAAAAAGG  
TTTCTCCCCCGTATTTCTTTGGCGGGAACCACTTAAGGGGTATATTCCCC  
AATCTGGGGGGGTTTTATATAAAATTCATTGTAAACACAATTTGGGAAA  
ATAGGAAATAATTG

>Sequence 1350

GGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAAATGTAAATATTC  
TATATGAATTTAAATATAATTCTGTAAATGTGTGTAGGTCTCACTGTAAC  
AACTATTTGTTACTATAATAAACTATAATATTGATGTCAGGAATCAGGA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGCGGCCAA  
GGG

>Sequence 1351

ACAAGTATTATGTATCCATAAAAAATTA AAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCA  
CAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAAG  
GCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGA  
AATTTTATATTTAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAGA  
CTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
AGTCCACAGCTGGCCAGTTTGA AA ACTGAATCCTGCTAGCCTTAATTTAA  
ATTTTTTAAATTTAATTTGCTTTGATTCCTGCACTCCTGCTCAAAAAA  
TCTTCAATGGCTCCCCACTGTCTGCAAGGTAAAATCCAACTTTGTCACC  
AGTCCTTCAAGCAACCCATGACTATATCCNGACCCCAAACCATATTTCTA  
CCTTAATATCAGTCTCCATCTTCCACCGCACCAGAATGATAGTTGAAAT  
GTACCTNGNCGCGACCACCTTAAGGC

Table 2

## &gt;Sequence 1352

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGTTATACTGTGG  
AAAGTTATTCAAATTTCAAATTTATTACAGTGTGAAAAGCACACAAC  
AGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAA  
AATAAAAATCTAAGGTAAGTCAAACATACAACTCTACCTCTTGCTTTCT  
CCATTAGAATATACACATTGGAAATCTAAGTTCCAAACAGTTCCTCTCTA  
CTGAAGATAGTGAAATTTAGTGCAAGCCCCCTAATTACCAATTTTTTGA  
TGCTTACA

## &gt;Sequence 1353

ACATTGGTTTGATCTGGAAAGGCAGGACAACCCAAAGCGGGCTGGGGACA  
GTTCCAAGTTATAGGAGGTTTTCCAATTGGCAGTTCGTTGAAAGAGTTTA  
TCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTAAAAATAAAG  
GGGTTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGC  
AGGCTTCAGAGAGAATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGG  
TCCCAGACTCCTAGTTAATTTTCTAGTGGATCAGGAAAAAGACCTGGACA  
GGGAAGAGGG

## &gt;Sequence 1354

GGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTAATTTAAAAAAGGAATTTT  
TTTTGAAAAATACAAAGAATTAATAAAAAATTTTTTTTTTAAAAATTTT  
TTAGGAAAGGGGGAAAAAATAAATAAAAAAATTTTTTTTTTTTTTTTTT  
TTTTAAAAAATTTTATTTGGGGGGGGGTATAAAAAGAAAAATTTTAA  
GAAATGGGG

## &gt;Sequence 1355

GGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTATAGTTTATGAATG  
TCTTGTGTGTAAGTGACTATAACCCAACTTTTTTTTTTAAAGAGGA  
TTTGAAGTTGTATGGATTTTTGTATCTTCACTTTACTGCATAGGAAA  
CAATCTACCTCATCATTTAAAATGACATGGGTGTCGGTTTTGTAGATCTT  
TGGTTTTTTGTGTCAGGTTTAATTCAGTTAACAAAATGTAAACATGACA  
TTCCCTGCAGATATTGTTGTATACCAGTATGGTTTCTTCTCTTTCTTAA  
ATGTTTTTGCCATCAAGTAGN

## &gt;Sequence 1356

CACTTTTTTTTTTTTTTTTTTTGAGTTTTTTTTTTTTTTTTTTTT  
TTTACCCCAA  
AAAAAATTTTTTACCCAAATTTCCCTTATCCCCCTTTCCCCCTT  
TTAAAAACCCCCAGGTTTTTTTTTAAACCCCTTCCCCCGTTAAGCCC  
CCTAAAACCCCTTCCCTGGCCCCCTTTTTTAAAAAAGCCCCCCCC  
CCCCCCAAAAAATTTTTTTTTTTTCCCAAAGGCCCTT

## &gt;Sequence 1357

ACAACACTTTAAAAAGTGAATTTTAAGCTATGTGAATATCTCAATAAAAA  
CATTTTTTAAATAAAAAACAATTCCAAAGGCCTGGAAATTCAGGAACATA  
ATTCAAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAA  
CTACAATGTAAAAATATAGAAAAAGTCATAACAATATTAGAAAAAATT  
TGAGCTGGATAACAAAAATAGTACC

## &gt;Sequence 1358

GGTACTTACATGGAAATAAGTGTTAAGAAAAGGA

## &gt;Sequence 1359

GGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAATCCCTTTATTAA  
AAATGTAAAAAGCCAAAAGCAAGATAGACGCAGATATGTGCCAAAATATG  
TATTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGT  
GAGAGGAGCCTTGACATCTCTTCTAACTATTGATATCATTTGTATA  
CTAACGATGT

## &gt;Sequence 1360

GGTACGCGGGATAGGCCTTCTTGTTATTATTTCAAAGAAAGAGACTTGAC  
GTTTTATGAGTGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAGGT

Table 2

GCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTT  
AATATCATTTGTTTCATTTACCAGTTTCAGAGGATTGGGGGTGATGGGCAC  
AACAGAAATGATGGAATATAGGCCAAATGTTACAAATAGATAAAATTACC  
TGACCAGTGAAGTGTGTTCTCAGTCGCCATGGAGCTCAGATTGGACTCC  
CAAAAAAAAAAAAAAAAAAAGTGN

>Sequence 1361

GGTACTATAGCTTCAGTGTGGTTTGTAGTAACTTAGCCTAGGAGGCCAAGA  
TGTCTCCCTAAAACCTTAGTCTCTGTCCTATTTACTTTGTTTATAAGACTG  
TGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCA  
ATGGACCCAGGCCTTTTCCAGTCAATCCATGTCCAACCCCTCATCTCCA  
GCGTGATCACTCAACTCTTCAACTTGCCTGCTTGCTGCAGGTTTAAACCA  
CACCACCATNCTGTGCTTTCCCCCTAATCGCCCATGATGCCCCCAGTAA  
AAATAAACTAAACCCACTTGAAGTGCC

>Sequence 1362

CGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTTTTTTGATAGTTATTTGTTTTTATTTTA  
AAAATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGT  
ATTTATTGGCCATTTGCATTTCTGCTGCTTATTGGCCATGTATTTATCTG  
CCATTTGCCGTCTGCTGTGAAATGTCTTACATTATTTGCCCATTTTTCTA  
GTGATAAAACACTGAAGCACATTTTAAAGACTTCTGATGATTTTTATTG  
TCAGAT

>Sequence 1363

GGTACATTTAAAAGGTGATGCTAATACTCTAAAATGTATAAGATATAGAT  
GTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGG  
ACAGGACATAATGTACAACATAAAAAGTGCAACTTGTACACTTTACATAT  
CGATGAGTGAATCGGCAACTACGACCAATTTTTGTCTCAAGTCAAATAC  
CAAGCACTATTGCACAGTCTACTGGATTATGTATATATGACATATCTGG  
ATACTGCATGCACCACATTATTGGCGGCCTTTTAGCTAAGCTGTAGAGTG  
CTATTGTGCGACCGCTTAGTGATACTATTCTGGT

>Sequence 1364

GGTACTCAAACCTCTTTCAGCCTACTACTGCACACCTAGGCTATGTGGTAT  
AGCTACCTTGATATGTGGTCTGTCAGTAACTTTGCTACACAGC  
GTATGACCTACTATTTCAGCCTTGAGAAGATGGAAATGCTGTCATTTGCA  
ACAATATGGATGAACCTGGAGGACATTAAATTAAGTGAAATACGCCAGGC  
ACAGAACGACAAGTAACACATAATCTCACTTATATGTAGAATCTAACAAA  
GCTGAACTCATAGATGCAGACTTAGATGATCCTTACCATGGGCTGTGAGG  
AGGATTATGAGGGAGGCAGAG

>Sequence 1365

GGTACTTTTTTTTTTTTTTTTTTTTTTACTTTATTTTACTTTAAGTTC  
CAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGCCA  
TGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACA  
TGCATTAGGTATTTGTTCTAATGCTCTCCCTCCCCTTAACAGCAGTTTTT  
CTATAGGTCAAAACAAATTTGGGAACCAGAAATGTCTACTGTCTTTATAT  
AAATGATCATTACGATTTGGGAGGAGGTTTTTTTTTGGTCACATTTGATAT  
GATTAGTCACTAAAGCATGATCT

>Sequence 1366

ACCACAACGTTTCTACTCTATTGTGTAAGCTTTAAATACAAAAATACCAC  
AACCATCCCGACTCTCCATTATTTTCAGTAATACTGGCTGCCCTAGTT  
TTTCAGGATACATCATGCAAATAAGTTCCTTTTATTTTCAAATTAATTTA  
TTCTAAAGTATCTTTAATTTTCTTTTTGGTTATACAGCTTATAGAATA  
AACAAGTCACAAGAATCTTCATTTGTTTCTAAAGTATATAATTCTACAAA  
AGTTGTTTTACTCAATGTGAATTAATAATTTGCAAGTCTAAAAAATAAAA  
AAATTTTAAAAAGTAAAAAAA

>Sequence 1367

ACAATATATTATGAAGCATGACCACTTTATTTTGAACTTAGCAATTGTA  
TTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTTCAGTTAGT

Table 2

TTTATAATGATTTTTTAAAAAACATATCTATTTGGAATAAGATACAGCAAC  
AATCATTGCTATTGACTTGTTCAACCCCTTAGTTACACTGTATGATCAAC  
ATATAACAAGATACAGTGGAATGGCCCATACAGTATATTACTGTTGTGTG  
ATGATTGGCTTTGGAAGCAGTTTGATTTTGAAATGCTTTGATATTCTAAT  
TGACATGGAACAAG

>Sequence 1368

CCCTTAGCGGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATA  
CTTTTATCACAATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTC  
AGTCTCAAGAGGTTACTGCATTTCACTTAAGACATTTGTACTTGT  
GATCACACTACGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCT  
CTTTCAAGTGACTTTTGGAATCAACCTTTTTTATTTGGGGGGGAGGATG  
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>Sequence 1369

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TGTTATTAGCAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCA  
CTGCATATGCATTAACAGCTCTGATTAGTCCACTTAAAAACCATTGTTCC  
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>Sequence 1370

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>Sequence 1371

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>Sequence 1372

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>Sequence 1373

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>Sequence 1374

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Table 2

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>Sequence 1375

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>Sequence 1376

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>Sequence 1377

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>Sequence 1378

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>Sequence 1379

Table 2

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>Sequence 1380

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>Sequence 1381

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>Sequence 1382

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>Sequence 1383

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Table 2

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>Sequence 1384

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>Sequence 1385

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>Sequence 1386

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>Sequence 1387

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Table 2

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>Sequence 1388

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 CAACAATAAAAAATACTCTTCTTCACTTGAAAGAAAAACCCAAAAGGCAG  
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>Sequence 1389

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>Sequence 1390

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>Sequence 1391

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Table 2

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>Sequence 1392

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>Sequence 1393

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>Sequence 1394

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>Sequence 1395

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Table 2

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>Sequence 1396

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CTACATTTATGGAAAATTGTAGGGGTAAGTATTTTATAGGTCATAAAAAA  
CACCATAATATAACGAATCTCATTTTCTTTAAATGTGAATTAATCCTAA  
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>Sequence 1397

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>Sequence 1398

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CTGTGGGGCTCTACGGGCCAAATTCCTTTTGGTTCAAGAGGCTTGGTAGAA  
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TCCCGCTCCCAAATCCCAAACAATATAACGGCCCCGAAGGCTGTAGCTGT  
AAAAGCCGGGGCGGCCCAAATAAATTGCGCAACCACATAAAAGCGGTTGG  
CC

>Sequence 1399

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CCAGAAAATACATTTTTTGCCAAAGGCCGCAAAGGCCCTGAACCTTTAAAA  
GGCCT

>Sequence 1400

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTT  
TT  
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AAAATTCCAAAAAATTTTAAAAACCCCTTTGGAAACAAAAAGGAAAAA  
AATTGGTTATTTTTTAAAAAATTTTTTTTGCACATTTCAAAAAA  
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>Sequence 1401

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Table 2

TCCTACCTCCTGTCTCCCCACCCCCTCACACACACCTAAAAGCACTC

>Sequence 1402

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TGGTTCACACCTGTAATCTTGGCTACTTGAGAGGCTGAGGCAGGAGGATG  
GCTTGAGGCCAGGAGTTCAAGACCAGCATGTGCAATACAGTGGGACACCT  
TCTGTATTTAAAAAAAAAAAAAAAAAAAAAAGGAAGGAAATGTTCAAAT  
ACACAGAAAAGTTGAAAGAATATTATAAAGTGAATATCTGCATACTTTTC  
CCCTAGGTTACCTGTCACCTTGACATGCCTTCTGAATTGTACC

>Sequence 1403

GGTACTTT  
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ATAGAAACCGCCAAGAACCAAAGAATTTAAATGCAAGCTATTTAAATCC  
CACTAAAACCCAAAAGGGTCTAATGTTTTTCATTCATTAACCTAACTAAA  
CCCCAAAAAAGACACTACACCCAATGTTATAAAGTTCCTGCCCGGGCAGG  
CCGCTCGAAAGGGCT

>Sequence 1404

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CTCTGGCATGTTTCAAATTTCTAGTGTCTTTGTCAAAGAGAAATTTTAA  
ACTTCAACATAAGTAATTTGTCATCTTTGTCCTTTAGTTTTTGATTTT  
AAGGACATAATATCTATTACTTTAAAAGTATTGAAAGCTGTATGTATATT  
CTTCACTAGCCACCTTATTTCTGTTCTAGAGTTTGAATTTCTTAACTCC  
AAAAACACACAATAATTTTAAAGTCTTGATCAAACCTCTGTTATCTTCTG  
CATAGTCTATTTTTCAGCATTCCATTAAATGAATTGAGAAAAAGGAGGTA  
CC

>Sequence 1405

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AAGAATAAATGTTTTTCAAGGATCTTCTTTTTGTAGACAACCTGTGTAGTC  
ACAGTTTAGAGTCGTAAATTATCTGCCTGGCAAGATACTTT

>Sequence 1406

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GACATGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATG  
AGCCCATCTAAAAGGCAAATACTGTATGATTTCACTTAACTGTGATATC  
CAGAGTAGACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGCAAGATAAAAGAGTTC  
TGGATATTGGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGC  
ACACTTAAAGATGGTTAAGATGGTAAATTTTGTTAGGTGTTTCTTACCAC  
AATTTAAAAAAAATTTTAATTAAGGAATTAATAAATTTACAAAATACT  
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>Sequence 1407

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AGCTCCTCATTGAGGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATT  
TACTCTGACCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAA  
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CCCCACCCCAACTCCCTTAAATTTTACAGGCTTATGACAGTTTGTATGT  
GCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTGGACTTTAGCCCA  
CCAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAATTGGCACCCATT  
GCCCCGTGCCTCAGGCAGTCTCCTGGGGCAGAGTATGCCACCATCCGAA  
TATCAGGCACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGC  
TTTGGGGGTGGGGAGGGGGGTAATACTATTTATTTGGCCATGATCTCT  
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Table 2

AGCN

&gt;Sequence 1408

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TGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAAGACTTCTGTCTA  
TACAATATTTTTTTTTTAATTTTGGAGATAAAAGCTTTAAGAACTTTTTG  
AGTTAATTATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTG  
TGTAATATGTATTATTACATAAAATGTGTTTTTGAATCAATGCAGTTTGG  
GGATGAATATAATTAATAATATGTTTAATAACTTAGAATTCAACTAATAAA  
AATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAGTTTAAAATGTATA  
ACTGAGTGGTAGATCAGT

&gt;Sequence 1409

GGTACTATGTGTGTATTGTTACTATTACAGTTAATCCTTTCTTTGTGTGA  
GCTTGTTAATGCAGTGAGGATTGTAGCACTGTCCACTGAGTCTCTGTGCA  
ACAACCTTAGTGGTGTGGCAGGGGTTCCGGTGTCTGGCTCTGATCTTGGA  
CGCTGGATAGTCGTCTGAGTATCTTCAGTGCCCAAGGCGACGGCTTTGGT  
TTGGGTCACAGGATGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTATAGG  
AGAGGATACCTATTGCTGCTGCATGATCAACACTGGTAGATTATGGTTT  
CTGGAACACTATTGGGGCACACAATTACTAGAGCGCCCATTAACAGGTATA  
TACAAGTACCTAGCACGGGCGGCCTGCTCGTTGGGCGAATTTCAAAT

&gt;Sequence 1410

GGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAGGCAGGAGAATTG  
CTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTGCA  
CTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAATAAAAAAAAAAAAAA  
AAAAAAAAAAGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGT  
AGACCACTCCTTCTGAGGGAGAATCCACCCACCTTCTCCTAGCTTCTG  
GTGGTTGCTGGCAATCTTTGGCGTTCCCTAGCTTGCAGATGCAGCACTCC  
AATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATGT

&gt;Sequence 1411

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TTTTTTTTTAAGGGAGTAAGTTTTTTAATCCACTTAATAATACAAGAGCA  
CAAATCCACATTTATTATTGATTTTTCGTTAGTTTAAATCCTTGAGGGG  
TACTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAGATAGAAAATGTGGGGC  
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CGGGCGGT

&gt;Sequence 1412

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ACCGCTGGGACCATCCTGCTTTTTTCCTTAGGGAAAAAATACCCCTTTT  
GGGTAGGAAGGCCCCCAGAAAGAAAAAGGAAAAATTTAAATCAAAGCCCCC  
AAGAAAAATCCCCCACAAGTCAATTGGCCCTTTTTTGGGGAAAAA  
GCCCCCCCCAAAGGCCCAAGT

&gt;Sequence 1413

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TT  
TTTTTTGGGGGGGCTCCCAAAAAATTTTTTGGGGAACTTTCCCAAAAT  
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AGGCCCTGAAATGAACCAAAAAAATTTTTTTTTTTTTTTTACCACCA  
AAACCCACAAAATTTTCTTTTTATAAAAAAAAAAAAAAACAACACTAGT  
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Table 2

AATCCCCTCCACAGACACACATTGGACAAAAATAGAAAAAAACTGTTTC  
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ATTGCGGTAGCCCAACCCGACCTTTTTAAAAAGAGAAACACTATTCTGCC  
CCTTTATTTAATAATAATGCACAAACCCCGAGAAAGAGGGTTTCAATTT  
GGCCCCCTTCN

>Sequence 1414

GGTACGCGGGTCAATTA

>Sequence 1415

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TCATGACCATAGTGTTTTTTTTTCTATTACTCTTTCACCTACTCACAGGA  
TTCAACCCATCTGACTCATCTGTTCCCTCCTCCAGACTCTTCTTGATCTT  
TATTTTTTTAATTTACCAGAGAAGAGCAAGCACGTGAGCAGTGAATAACT  
TGCAAGGATGCAGACTTTTTTATTTTGCGATGCTACTTTTATAAAAACAA  
ACCGTAACATAAATAACTCTTTAATGAAAACCTCAGAAAAATATTAATCT  
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>Sequence 1416

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TTGTGAGACTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAG  
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AACTAATGATTTACCTTTTCATTGTAAGGTTATCATGCTCAAGTATTAATG  
TAGGAAGCTNTTTTGATGCAAAGTGTGTGTGTGTGTGTGTGTATATA  
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GTGAATTN

>Sequence 1417

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ACATCCAAACTTGTTTTTGTTTTTTTTAAACAGATAAAAAATGTGACTG  
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GAAGATCGCTTGAGGCCAGGAGTTTGAGAGGGGCCTGGGCAACATAATAT  
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GGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCAGG  
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>Sequence 1418

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CAGGAGGGAGCAAATCCAGGAATGGGGTGGCTCCCCAGGGCCGAGATCCA  
GACCTCATTAACAGGATTTGGTCACGGCCCACTGGATAGTGGGGAAGCC  
TGTGGGGTTGTCCATGTGGTGGCTGGCAAGCAGGGGCCTGCTTCTGGGG  
GTGCTGGTGGAAATCACTAGACAGTTACCCTGTGGGTGCTGCAACACTT  
TCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGAACCTCTCTG

Table 2

GAAGCTACCTGGAGGGTGATGCCAAGAGAATTTGCTGGGAAGCCATGCTC  
TGGGGAAGTGGTGGAAGTCCCTAGGAACTGCCTGTGGGTATGGTGCCAC  
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TTTCCCTTTTTTTTTTTTTTGGCTTGCAAAAAA

>Sequence 1419

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TGTAAGAAATTTGTATGTGGTAAAAATTTTACCTAATTTAAATTTGTGTTT  
CATAATTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGG  
GGTTGAAAAGTGGTGAAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGC  
ACTGGTCTCATGAAAAAGTTTCATGTGTGACTGGGTCCACTGAGATTGA  
AAAGAAATTTGTTTATACGATATTCTAAAAATTAATGTTGCTGTCAGGGA  
TGACATGATACAGGACCAGAGTCTGTGTAAACAACAAAGTTTTCTTAAAG  
TATTGATACACGCTTTTTAAAAATTGCAAGAGGTTTTAAGTTTAATTCAA  
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>Sequence 1420

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>Sequence 1421

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TCTTCAAAACCACAGAGAGTTCATGAGCCAGTCTTGCCCATCTCCAATCA  
GGGAAGTTCTAAAAATAAAATCTTAGCAATCTCCTTGGCCCAAACTTCA  
CCCCATCTTGGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATG  
AGGGCGTGTGGTTGGGACCTGAGCATCCTCCTGGTTGGGCTAGTGATGGG  
GAGAGAGGGCTGTTACTCAGGACTCCCTCCAACAGAATACCAGAAACAGG  
CAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGAAACCAGCCCTCA  
CCAAGTTACCCCTGTAAATCCTTGTCTCCCCATGCACCTCTACTTTGAGT  
CAGAAATGGATTCAATGTCAGGCTCAGTTGTTTGTATTATGTGAATGAACT  
GAACGTAACCAAGCACCAAGAGAGCCCTAAAGACACAGTAGACCTCCTGT  
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>Sequence 1422

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CCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGAC  
TGGGAGTCAAGAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCAATTTT  
CCTCACCTGTAAATCGATCAGAAATCTTACAAAAACAAAAACAAAAA  
ACCTCTTCAGTATTTCCCTCAAACAGGATCCTCCTCACATCTGTATTTAT  
ATTTAAAAAATAAAAAACAGAAAAGAAAAAGAACAGCATGACATCATTAG  
GTGTGTGTACC

>Sequence 1423

ACATCATAGGACTAGTCACTTGTGCTTTCATGGATACTGCCTGGGTGGGG  
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CAGAGGTCATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCC  
CGTACTCTGGTTCGGGTTCAAGTGAGAGGCTTTTCATGAAAATCTTAGGA  
TTGAAGAGCTCTAAGTTCAGGATATCTCAATGTTTCAGAAAGCCTGACTAA  
AAGAAGCCAAACCAAAACCATTTAATGTGAACACAAACCTCTTTCTTTT  
AGTAAGTTTACTTTTAAATACAGAGTGAAAGAAAAATAAAATTTAATAGG  
CTAAACAAGTCAACACCCATTCTACACTTGATAAAACCTTCACAAAAG  
TCAACTGAAGTAATCCGGAGCTGAAACTGAATTGGGCCGATTTTCAAATG  
AATCACAAAAGTCATGTAACACAAACAAAAGTCGATTATATTTACACACT  
CACAAGCCCTCTAAAAATGTGCCCAAGAAGCATTACCTTTGTTTTGGC  
CATTCTGAAGATTTACATTTTATTTTATAGATAGCTTAACATTTTATTGA

Table 2

GGGGTTCTCTACATGCGGTATGGTTTGTCTTGGCCCGAACACCCTAGGC  
GAT

>Sequence 1424

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AAACATGCTTTAAAAAAAATTTTAAAAAATCCGGGAAAAGGTTTAA  
AAAAAAAACCTAAAAATCATTTAAAAAATTTTAAAACAAAATTGTTAA  
AAAAAAAATTTAAAAAAAATTTGGGTGTTCAAATTAAATTATTAAAA  
CAAAAAAACTCTATCCAAAAATTTAAATTTTAAAAAAAATTTAAAAA  
AAAAGCTCCTTAAAAAAGGGGCTTAAAAAAAACAATGTGAAAAAAAAT  
CCATTTTATACAAAAATAAGTTTTTGTAAAAACATAACTTGAACATAAAA  
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CAAAAAAAAATTTAAAAAAAATGTACAAAAAAAAGTTCTTTGTCCAA  
ACACAACTAAAGGCAAAAATTTAAAAAATATCGGCAGTAATAAGAA  
GACCAAGTCTGAAAAAAAATCGGAAAAAAAATTCATTCC  
TTTGAAAAAAAAATAATCTCCCCAAAAATCAACAAAAAACTACGCG  
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ACAATAATGTTCCCTAACCAAAA

>Sequence 1425

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AATTGTTTTCATGCTATTGTAATGGGATTGCTTTCTTTTCTTTCTTT  
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TCCTGCCTCAGCTCCCTAGCAGTTGGGACTACAGGCACATGTCACCCAA  
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CAAAGTGTTAGGATTACAGGCGTGAGCAGTTTTCTTTTGGTATTGCTTTA  
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AACTCACTGAACCTTCACCCTCTGGGTCAAGTGAATCTTTTGGCTTAGA  
CCTCCCAATACCTGGGATTACAGGTATGCGCCACCTTGACAGCTAATTT  
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TGATTTCCAACCTTC

>Sequence 1426

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TGGGGTAGAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTTG  
ACCCCGCGT

>Sequence 1427

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AAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACA  
AACTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTC  
TCTGGCTTCGGCCAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATC  
CCGTCAGGATCAGGAATGATGGCAGAGTGGCCCTGTTGGCTTTGTAGCTA  
AATTGTGCTCAGCCAGAGAAGAACCACGACCAACAGAGCCCTAAACTGAA  
GTCCCAATTTCTGTCTACTCTACCGTGCTGCACAAAACCTAGTACC

>Sequence 1428

ACAGTCTTATTTTCAGCCTAAAGAAATGGACACTTCTCAGCATAGGCGGA  
CGTGATTGGTTGTGGACAATCCTTTTCTAACCAGGATCCATAATATCAC  
AGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGC  
CATGAGAGATGGTGGTTTTTTAAAGTTGATTGATGTTGGATGTAGTAAGT  
CCTGTGGGAGAGAATTTTTTTAAATAAAAAATACTGTTTAAAGTGTCTC  
TTCTAACTTGATCTCTACCTTTTCCCTCTCCACTTCTAACTGCCCCCA  
CCAGCTACACTTTCCAGTTTGAAATAATGAACAAATCCTTTTGCTGACA

**Table 2**

GACCAAACCTTAGTTCCTGTGGGCAAATGAGGGGTTTTTCCCCCAACA  
ATGAACAATTTTTTAAAAAGTCTCTCAAAGATGTTCTTATTGGAATAA  
CCCTTCTTAAACCCAAACAGCCTAAATGATTGGATAAATGTTCCACAAGA  
TCAAAGAGCCACCCAGGAATTTTACAGCTGGACTTCATTACTTGATTACT  
TTGCAAAAATAGAAGCCAAAGCTTGACTTAACTGGTAATAGACTTAAAAT  
TTGAGTTTGCTCTTGGTGGGGTGCTTATCCCCTTTTTACATGACAGAAGT  
GTTGGAGTAATTTTATGTGGCCTGGGTGGATGGCTTTTTTTCTCACTA  
TCCAATAATTTTAG



Table 3

&gt;1.1

GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAA  
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ACATGAAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCT  
CTGTATTTCTTTCTAGTTTTTCCCTACCATTTCTTAATCGGAGTATCCA  
AGCCCAATCACCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTT  
CATGTTTTTCTTCATGTGGAGTGTCTTTGCCACCCTCTTAGCCTATCT  
GATCCCACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAA  
TTTTCCCAGCCATAATGATCTTTTAACTCTTTGAGCTTTTACTATTT  
ATACTCTTTACCTAACCAACTAAATGGTTTTT

&gt;2.1

GGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATC  
CGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGA  
AACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAG  
AGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAACCATTCCTTG  
CTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCA  
GAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAAT  
TTGGAATCTAACTCAGCGGAATTGTATCCGT

&gt;3.1

GGAGAGGAGTCCTTTACTTAGAGTCAAGCTGAAGGAGCATCACAAACCCCA  
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GATAGGATGAAATAGTAATTTATTGATTACTATATCTACTATATGTCCGT  
AAGATAGCAGGGTCTTTATACTCGGAATCTCATTTGATCCTCATAGTTTT  
TATTGGTTATTATTATCCTCATTTTACAGATACAGAACTGAGGCTTCAG  
AGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGAG  
GACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAA  
TGTTTAGAATATTAATAAGTTACTCAGATAATCTATTGGAATTTCTTCAT  
GCGAGGGGGGAA

&gt;4.1

GAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTCGTAGCTAC  
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TCTTGACT

&gt;4.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGAAAC  
CAGA

&gt;5.1

GGCGGCCGCCCGGGCAGGTACCATGGAAACCCACTCTTTCATTGAAAGGA  
AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT  
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAG  
TCAGCATGTCTCTAACCAGAGCCAGGCTGTGCTTTTTTGT

&gt;6.1

ACCTATGACCATCTTACATTATTTTTATGGGTGGGGGGCATTGGCTGTGG  
AATGTGGGCAGTAACCTGCACAGTCAGTAACCGTGTGAGTAACGGGTTGT  
TGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTACACGCTGGT  
TTGTGGGCGGAGGGGCGAGGTTGGTGCCTGGGGTGTCCGGGCACTGGCTGT  
GCATGCCCTTCTCCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAAGTCAC  
CAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCTTGGGCTTG  
GCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCTCTATAGTA  
GTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTCTCAGCCT  
TTGCTTCTCACTATTTACTATTTGCGGGGCTGGGGGTAC

&gt;7.1

CGCGGTGGCGGCCAGGTACGGATCAATTCCGCTGAGTTAGATTCCAAATT  
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG  
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA

Table 3

GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT  
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TCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC  
>8.1  
GCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
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ACCAAACCTGGAACGAGTATTTGCAAAACCATTCTTGGCTTCGCTGGATGG  
TCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTA  
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CAGCGGAATTGTATCCGT  
>9.1  
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AGCTGGAACAGACGTCACCAGTC  
>10.1  
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ACCCATGTGACATGCTAGGTCTTCCAAAAC  
>11.1  
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>12.1  
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ATCCATTTTTTCTGGGAAGAGAGTCAGTT  
>13.1  
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>14.1  
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GCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTGGAGGGACATCAGCTGG  
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AAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTC  
CTGATTCCCAGTATCTGGCCACAGGAACCTCATGTCTGGGAAAGTGAACATT  
TTTGGGGTGGAAAGTGGGAAAAAGGAATATTCTTTGGGCACGGGAGGAAA  
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>15.1  
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Table 3

ACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAAATGAC  
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AGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTTCTTGATAACTGTCT  
GCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAG  
TGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCACGAGAG  
ACAGCCAAGCGGCCTGTGGGTGGCTTCTTCTGGATGTTTTCAAGGAAA  
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>16.1

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>17.1

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GCAGGATTCA

>18.1

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TGGCTCCGGATCAGGGAACACTACCAAACCAACAGCAGTCAAATCAGGTG  
TTTCCTTCTTTAAGTCTGATACCATTAAACACAGATGCTCACACTGGGGCC  
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>19.1

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CACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCAGTGGTTTTTTCCC  
CTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAGGTGGGCG  
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>20.1

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CCGTAAGAATTTGGTTCACCAGGACACAGCTCCTCTCTTATGAAGGGATG  
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TGGTT

>21.1

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TTCTTTAAGTCTGATACCATTAAACACAGATGCTCACACTGGGGCCAGATC  
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>22.1

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GCAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCACTCTGGCTG  
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GGGTG

>23.1

Table 3

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CAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCCTCTGGCTGC  
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GGT

>24.1

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>25.1

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TTTTCAATTTCTCCCTCTTTCCCCACAGCAGTGCATGTCCACCATAACCACC  
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>26.1

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TGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATAT  
ATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGGA  
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>27.1

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GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT  
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>28.1

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CA

>28.2

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CAGA

>29.1

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>29.2

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>30.1

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CA

>30.2

Table 3

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>31.1

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GAACATGCATTTTTCTTCTACT

>31.2

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>32.1

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GCT

>33.1

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>34.1

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GGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTT  
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ACACTACA

>35.1

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>36.1

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Table 3

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>37.1

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GATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTT  
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GACT

>38.1

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TGTCAGGTGAGTTGA

>39.1

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TTTCAACAGGATTTTTTCAAGAGTGGGGATGATCTTTCAAATTATCCACAA  
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>40.1

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>41.1

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GT

>42.1

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CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
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>43.1

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Table 3

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CTTTTCTGA  
>46.1  
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>47.1  
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>49.1  
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>52.1  
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Table 3

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TGACTTTC

&gt;53.1

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GGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGC  
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&gt;54.1

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&gt;56.1

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&gt;58.1

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TTGTGAAGCAAATTAATTACACAACCAAATATTGCCACATTCTTGAGGTC  
TATTGACACAATGGGAACTTCAACCCCTACTTAGCTTAGCATTTTTTTTT  
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GAAGATTAAACATATTTTTATCCATTTCTTATGGTGGGAAATTAACATG  
TTTTAGATTTGAGGTCCCCCTCTCAGGAAACCTTTCAACTTCGTATTAT  
TCACTCCTGAGTAGTATGGGGTAGAAAATGAGTGGAAATCAGTTTGGCCA  
CTATTTCCGAGTCTTTTGA CTGCAATACTTTTCATCAATATTACAAAT  
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&gt;59.1

GGCGGCCGAGGGACGCGGGAAAGATCAGTTGTTTTACCTTGGCATTCAA  
GACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCAC  
CATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCATTCTCCCT  
AATTTTCTGAATCAGAAATTACGGAGGT

&gt;59.2

TAATTTATGCTTTGAGAACCGCTGATCTAGTTTGTCCCTCTCATTTTGCA  
GGCAAAGAATTGAATTCTAGAGAGGTTAATTGA

&gt;59.3

CCCAGGATTCATAGTTTTCTTTCTAATACTCCATATTTGACTTGACTTTT  
TTACAAGTTGTAATTACAAATAAGTCTAAGATGGGAAAGTTGTGGAAAC



Table 3

TTTATAGAGAACATGAGATTTGACTGAACAGTAAACATTAAGTAGAGAGG  
AAAGAAAGGGGTGTTCTAAGC  
>60.1  
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TCCAAGAAACTATGGGGGTGCTTTACATCCTTTTGAGGTCCCACGAGAAT  
ATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAACCA  
TTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAA  
GCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGG  
TTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT  
>61.1  
CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTTGTAGTCT  
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CTGCATTCTACTTTATGTAATAATCTGTTCAATAAATAATTTTTAAAAGG  
AGACAACAACGCCGAGGTGATCTGGAGGCTCCTGGAGGACCTCAGCGAC  
TCAGGTCCAGTCCAAGGAGGGCCGCGAGATCAGGCTGAAGGATGGATCCAC  
ATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCAGAGAAATG  
CCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCT  
GCTGTCACTGGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTA  
GCATCTAGGAGTAAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGG  
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GCACTTAGAAGCGGATGCATTAC  
>62.1  
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CCTGTGCAGTAACAACGTAGGCTCGGAGGATGGGT  
>63.1  
TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCCG  
TTTTCCAGTTC  
>63.2  
AGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTTCCCGCCTTCCTTC  
GGCCTTCAACTTGACTTCGGCTTGC  
>65.1  
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>66.1  
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TGGAAAATACATCAATTAGGACAACATGACAATTCATTAGACTCCTAT  
CAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGTATAAAATTCAGAT  
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TGTGACCTAAACATGAACTCAGGGTTTCCAAATTCCTAACAATGAATAG  
T  
>67.1  
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>68.1  
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TCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT  
AGACCAAAGGAAACCACACAGGGATTTACAGGC

Table 3

&gt;69.1

TTGGAGCTCCACGCGGTGGCGGCCGGGTCCCATTTTCATCTTGACCCGCA  
TACCAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATC  
AAAGATACCCTGAGGTAAATTACTTAGGTTATTATTGGACATATCCAGTC  
GATAGAGCTGCCTTAGATAAGAAAAAGCATTTGGGGGCACCCGATTGATG  
TGGTTATCTTGAAGATAAAGCTTCCTCAGGTTTGTGCCTGGAAGGTTTAC  
TGGTGCAGCAGTCAGGGAATTCGACACCAGGGACAGCTCTGTCAAATTAA  
CTAGGTTGAAGAAAACCTTTGTACCTAAACCATGATTGTTCAACAGGTTT  
CCATCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGA  
TGAAATAGTGGATATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCC  
TGGGCAAACCCAGGGAATTGTGCTAAGGTGATTACGGGACAGGAAAAGC  
AGTCGGAGATAGTTGCTGTCTCGGAATGCTCCCTCTTCTATGCTAACTGC  
AGAGACAGAGTTGTCATCTAAATGTAATTCTTCCAGATAGGGAATTTTG  
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&gt;70.1

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TTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTAAGGTTT  
CCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCCTTGT  
AAAAAGACGTTTGAAGTGATTCTTTAAAGCCATCTTCTCCAGTTCCAG  
AATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTTGTCA  
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GGGATTTTCAAAGGAACGAAGGATCACTTGCATTTGGTTTATCAC

&gt;71.1

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GTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC

&gt;72.1

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TAAATAACACCCAGAGTGACTCAAAAAATTTCTCAACTTTGCC

&gt;73.1

CTGCCTTTTAAAGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA  
TCTAACATATATTCATGCAA

&gt;74.1

ACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGT  
AGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGG  
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AACTCTATGTCAGTGTCTGTCCCAGGTCCTAGAACTGGAATAGACCAACC  
AAGCCCAACCTTCTTAAAAGTAAGACTAGGTGCTTCTGATTATATATT  
CAACTGCCTGGAAGCATGCAAGTAAATTTCTTGATGGCATTCTTAAAG  
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GTTTTTTGGTTTGGACTTTAAAAAAATTTGTTTTCAAACCATAATTGG  
GGCCTACCCCAAATGGAT

&gt;75.1

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GCGTCTCAATCTGCAGTAAAGAGGAACTAATCTGAAAGGGAACGATAGG  
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AGGCTGA

&gt;76.1

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT

Table 3

TATTGGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
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GTGCAGTTTTCTTTTTCACATTAGGCTGGTTGGTTCAAACCTTTTGGG  
>77.1  
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>78.1  
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>79.1  
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AGTGACCGATGTCCTTCCATATTGTTT  
>79.2  
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GAACCTGGCCAGGTTTCTGCTGGTACCTGCCCGGGCG  
>80.1  
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GCCTCTCT  
>81.1  
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CCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAGCAGCAA  
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>82.1  
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>83.1  
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CA  
>85.1  
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AAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAAATATAGTTCTTGT  
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Table 3

AAGATTTTCATTCCTTTGTTCCAC

>86.1

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GCTCTCTTCTGGATTCAAATCCACCAGCTTTTACCAGGGCCAGGGCCA  
GGCCTCCCCCATGCAGAAGATCTTCATTGGCTGCATTCACCACAGCATCA  
ACAGCATGTGTGGTGAGGTCATCTTCCACACTGATAACTCTATCCTAGG  
AGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTTGCCTTCCTGAA  
CTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCA  
CACAGCTGACGCTCATTATTGTTTAAAATTTGAAGTCATTGTGGTTAAT  
GGGAAATTTGCCAACTATAGTTTTCTCCAAG

>87.1

CGCGGTGGCGGCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACA  
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>87.2

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CTACTTAAAAATA

>88.1

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>88.2

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GGCGCCTCTTCCTTGTTTTCCCGAACCCC

>89.1

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TCTCCAGTTCACGTGTTAAATTCTCTACTTGTGATGCCAAATGTGCTTTC  
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>90.1

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TTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGA  
CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAAACTA  
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>91.1

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CAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAAC  
AAATACAGATGT

>94.1

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Table 3

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>95.1  
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>96.1  
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>97.1  
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>98.1  
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CCTTTCCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG  
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>99.1  
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>100.1  
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>101.1  
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>102.1  
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Table 3

GCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTTCACTGAGGTT  
TGATGAAGAGTCACTGAAGTGTACAAAGAAAACAAGATTTGAGAAAGAT  
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GCTGGATGTGAGCA

>103.1

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CCTCCCCTCTCTATGCCCTCACCTTTGCAGGAGACTCTCAATTTCTCAGT  
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>104.1

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CAAAA

>105.1

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>106.1

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>107.1

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>108.1

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>109.1

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Table 3

GGTCCTAAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAGAGATGCTAA  
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&gt;110.1

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&gt;111.1

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&gt;112.1

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ACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAGGCTTTCCAGATG  
CTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT  
GAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGGCGTTGCTGTGG  
GCCAGTTCGTCCACCAGCACCAGGTTGGGCTTGGCGGCGAGCAGGCC

&gt;113.1

GGGCGCGGCCAGCCGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGC  
TCATGTGAGGGGGCGACTGCCCTGACAGGTGTTGGATTCCAGCTGCTGT  
GGCCCTGAAGGTGGGTGGTGGGAAGAACGGGAGAATGAAGCCAGCCTTGG  
GAGAGGTAGGACGCCAGCCCGGCCAGCTGCTTCCAGCATCTGGATCCAG  
CCTCACCTGAAGCCAGCCACCTTCTGGAAGTCAATGTCAACACC  
GAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCTGTG  
CTGCAGACCCTGCAGACCCCTATGAAGATGGTCTGCCTGCCTTGCATCG  
GGCCTCTAGCTAGGGACTGTGGTTGCA

&gt;114.1

AGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGT  
GAGATTACTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTA  
TGAAAAGGAAAGAAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTCC  
TCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGA  
AACACCTGATTAAATAACAGCATGGAGCCAATCTTGACAAAGAAATTGGC  
TGCATCC

&gt;115.1

GCCCCAGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCT  
AGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACT  
GGGGTTAGTTGGTCGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGT  
GTTTAACTCTATCAGGGT

&gt;116.1

CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGT  
CGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTCAGTTGCGCCCG  
CGGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGG  
CGAGACGATGGTCACTTCGGAACGCGCGCGCGCATCTGCTCGACCAGGT  
TGTAAGCGCACGCTGTCGACATCCAGCAGCGGCACGCCGCGTACGACGCG  
GTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCCTCGGCGGTGGT



Table 3

CCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTCTTCGACCATCGGGCTG  
TAGCCGAG

>117.1

TGAGCTCACCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTCAGGAC  
TGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAG  
TTGCTGGCTTTTCTAAATTTGTCTTCTACCTCAGATCTAAACCATTGGA  
TAACATTAGGGCAATATCATGGCAATCGTGGCCAGTAAAACCATAGCAA  
ATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAAATTTTTCTCAT  
AGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAACCTATC  
TCTTGGAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTG  
AAACAGGCAGACAATCCTGAAACATCTTTTCTGGGGACGTAAGGCATGAA  
AAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGACA

>118.1

GTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGAT  
AATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTG  
AGCGTAAAGATTCTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAAT  
GCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATCAGGATGAAAG  
AGGTGATTCAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTG  
AGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGA  
TCAGACAATAGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGACAATGA  
CCCCTCAAGATGTTAGATCAGCACAGTGGGATCAGAAGCCCCTAATGATG  
ATGAAGA

>119.1

CGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCTGGC  
CAGTGAAAGGGTCTAATATAAAACACACCGAGGCTGAAATAGCCGCTGCT  
TGTGAGACCTTCCTCAAGCTCAATGACTACCTGCAGATAGAAACCATCCA  
GGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGTGCTGTGCCA  
TTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTTCATCCTACAA  
CGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATAACAACGTAACCT  
TGCTGAATTTTCATGGATCCTCAGAAATGCCATACCTGAAAGAGGAACCT  
TATTTTGGCATGGGAAAATGGCAGTGAGCTGGCATCATGATGAAAATCT  
GGTGGACAGGTCAGCGGTGGCAGTGT

>120.1

CGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATGAGACCGGG  
AGCTTTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTTCAAG  
AGCTATGGGCATTGTTTCACA

>121.1

CCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTT  
TAACAGTTCCACCTTTAGCTGCCTGGGCATTGATTGCTCACCTACCAC  
TATGACTAGATATGATTCCATGTGCTTTTACTAGATTCTTTGTCTCTTG  
TGTATGGAAAGTGAGACTTTAAGTAATAGTTACTGCTGAGAGAAATAGAA  
GACGTGACAACGTTTGCTTTCCCATTCAGTAGTCAGCGGTTGAATGGAAT  
TATCTTCGTTTTTGGACTGACAGATTTGTTTTACAATTCAGCTATTCCCA  
AGCCTTACTATTCAAAGCAGAACCCTTCTGTCTTCTTTCTGTAGTTGCTC  
TCTCTCCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTC  
AAGTAAAATTGTTTTATGTTTTGTTTTATCTACCCTCTTAATCAGGGCA  
GGGATATGTCTGTTGTATATTTTACTTTTCCCAAATCATAAAGTTTTTG  
GAATCTGCTG

>122.1

ACCGCGGTGGCGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAAC  
CCTGACTGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATC  
TTGAGAAATGGCTGTGCTCCTGAAATATTTCTGTGAAGAAAATTGTTAC  
AATCCCATTACATCACTGGCTTTTATTATTAAATTGAATGTTGGCTGGAA  
ACAATTTTAACCCCAAATTGTGACAAACAAACTATATGGAAAAGGTC

>123.1

CGGGTGGCGGCCGCGGGCAGGTACGCGGGTGTGCAACTGCAAACCACT



Table 3

AACCTGCTATGGC

&gt;123.2

AGACTCCAAACAGTAAGGTCAGAATTTATCAAGACATTACATAGGAGTAA  
GGGCACAGCCAGGGGTGGTGGGG

&gt;123.3

GGAAGGACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTT  
GGCCCACTACTGTTCTCACCTAATCCCAGGCCAGCGTGTCAGGAGGCC  
AAATGACAC

&gt;124.1

CTCCACCGCGGTGGCGGGCCGAGAAATGTCGCCAAACTGCCGTCTTCCCTC  
CTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCGCCC  
TAGAATCCCCCGAGTCGCCTCTCCCCGCGT

&gt;125.1

ACAGACTTTCATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCT  
GTAATAGATTCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGG  
TCCCTGCATTCTTGAGAGGGAGACAGCAACCAAATAAACAATTACAAAA  
AGTATGTAACATAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAG  
AAGTGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGA  
ACAGAGAATAAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAG  
TCATTAAGAAGCATGATCATCTTTCAAGAACTAACCCTTGAGATCAGAGT  
AGTTTGATTATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGC  
CAGATCACGTAGAGCTCTCTA

&gt;126.1

AGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGT  
TCCAAGAACTATGATCCTGCTTTACATCCTTTGAGGTCCACGAGAAT  
ATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCA  
TTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCA

&gt;127.1

GGTACTGAAAGTGAGGTGAAAAACAAGAAAGCTGAGAGAAATCAACATG  
TTCCCAAGTGCTGTATGTGAACAATAAATCTGAGACATACCTCTAAGGCT  
TTTCCAGAGACAAGAAAGCTCTCAACCTGTAAAGAATTCCTGGGACATGA  
CTGAGAGCAATGAGAACTCCAGGCAGAAGGTTAGCAGATATAGTGTAGAG  
CATACACAGATATACTATAGTTTCATAACACTGGTGGCTTAGCTGTAAATC  
ACAAAATAGCACTGGAATTATACTAGTGATCATAGCACATAGTCCAAGAA  
GAAAAAATTTTGATCTTGTTCTTAACTTTGTGGAGCCAGTGGTGAAATG  
AGTCACACAAAGATGCAACAATG

&gt;127.2

ATGAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCACCAAT  
ATTACAATAAAAATCAAGACACATGAAGGAGCATACCT

&gt;128.1

TTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTT  
GAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAGCTCCA  
CGGTCTCATTCCACAGCCTGGTAGCTCGGT

&gt;129.1

GTGGCGGCCGCCCGGCAGGTACAGTCAAGGCCGAAAACCACTGAGCTTTT  
CCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCCTTCAGCTGATGAAC  
TCTTCATATGCCTCCTTTTGGGTGTCAAGTGGAAATGTCACTTCTTTCTAG  
AAGCTTCTCTGGCTCTCCCAGCCTGGCCCAGGGCTCCAGCTATGAGCTTC  
CATAACACCCCTAGTTTTCTCACATTGCCCTCATAGTATATGGAATTTG  
TTCATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGA  
GCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATG  
CCTGGGCCAGAGTAGGTGC

&gt;131.1

TGAGCTACCGCGGTGGCGGCCGCCCGGCAGGTACCTATCTGCAGAACGG

Table 3

TCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAAT  
TTTAATGAGATTCAAAGTTAATAGCCATTCTTAACGTTTTATAATTAGA  
AGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAATTTGAC  
TGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGTCTGT  
AGACCCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTAT  
ATACTTAGGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTG  
GAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGTTGCTG  
CATCAAAACAGTTCTGATACACACACCTAAAGTCACCACTTCCTCATTCT  
GGTCCCCAATAACCCCTATAAGCCTCTCTCCTTGTAGGTGACCTCTGCCCT  
GTGAAGGGTTGGCTCACCCCAAGA

&gt;132.1

GTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAAC  
CTTGAAGATGTTCTGGGCGGCCAGCACAAATCGCCGCTTGCCGACGATGA  
CATTGTTGGCCTTCAGCCCGTCAATATCGCCCTTGATGTCGATGTTCTGG  
CTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTGCGCTTGCCGGTCGC  
CTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGCTGGACGCGAGGG  
TCAGGTTGCCCTGAAGCAGCCCTTCTTGTCTGGGTGACATCACCGCGC  
AGCCGCGTGCCGCGGCAATGAACTGGATATTGCTCAGGCGTTTTTCGTC  
CTTGTGCAGGGCAAGTTCGTTGGCAAGATCGGCCCGCACGCCGTCGAGGA  
ACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTTGACAGAAGTCCGTT  
GAAGGAGAACGCGCCTTCTGAGCTTGCCCCGAAAGTTTGCCATCC

&gt;133.1

GTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGT  
TTCTGATATAATAGGTTACAAAGCAAATTTGAGATGATTTTTAAATGCC  
ATGCAGTTATTTTTCTGAATAACATAAATTTAAACAGAGACCTGAAAA  
AAACCCCAAAAGTATTAACCTTTAAATACATAAACTCAATAGAAATAATT  
TAACTGCCTTCTCTTACAAGAGGCAATCAGAAGGCAGGACTATAGTTTT  
CTGTGTTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCATAG  
AAACAATTCATAGTTTTAATTTCTATCTCTCTATCTCT

&gt;134.1

GGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTTATTTAATC  
AGGTGTTTCTACTGTGTAGACAAACCTAACAGCTCTCATCTTAAAAAA  
GGAGTGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTC  
CCTTTCATAAAGACTTGATCGTCTTATTTATCTGGATTGGCCATACACAG  
TAATCTCACTAGCTGACAGTTGCTTCCCGCGT

&gt;135.1

AGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTC  
AGGGTCTTCTGGAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGA  
GTGAACACCCGTCTTGTTAACCACCAGCAGGGGGATTCTTTCTGGAGA  
GTCCATGTAGTCATCATCTCTTTGACCTCTGCATTTCCCCCAGAAAGGC  
GAGCATGTTACTTGTATCTTTGGGATCCGAATGACAACTCCACCAGATG  
TAAATCACTTTCTAAACAATTTTACAGACTGCTCCACAAGTCATCA  
TTCTTAGCATTCTATAGCTGAACCTCTTTAAGT

&gt;136.1

CGCGGTGGCGGCCGAGGTACTTAAAGTATATCAGGGCAGTTTCATGCCA  
GGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACC  
AGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAG  
ACCCGCGT

&gt;137.1

CGCGCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCC  
AATGGTGGTGCTCTTGTCTTTCATGCTTACATGGATGAACTCTCATT  
GTCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACAT  
TCAGTGAAAATGAGAAAAATGCTGCTTACTATGCTTTAGCAATAGTGCAT  
GGAGCGGCTGCTTATCTCCAGACTTCTTGGACTACTTTGCTTTTAATTT  
CCCCAACACTCCAGT

&gt;138.1

Table 3

CAGTTTGCATACATGCTAAACAGAGAAATGTCCTCAAATTCAGTTACTA  
AAAATTACTGATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTA  
GTCAAAGGAGGAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCT  
ATTACAAATAAATATTCCACAAATTTGGAAAGTTATTAGAGGAAGAATTT  
TTTTTCCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTGAAAA  
TTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGAAAAAGAAAATCA  
AAACAAA

&gt;139.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCAT  
CCCAAACCTCTTTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAA  
ACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTTCCCTCCTTGCTAT  
GCTAAAACTTGGATGGCCTCTGAAGATACTGCTCTTCACCCCTCTGAAGG  
GGGCTCCTCAAGGGAAGGT

&gt;140.1

TCACCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGA  
CAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAGCTCCACGGTCTC  
ATTCCACAGCCTGGTAGCTCGGT

&gt;141.1

TGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCTTTAAAC  
TCTTGACCTCTGCAATTCAAGTTGTGAACATGAACTTGTCTATCACCAG  
CCCCTTCTCTGCATTCTCTTTCCCCCTTGTTATGCTAAAACTTGGATGG  
CCTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAGGGGAA  
GGT

&gt;144.1

CTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTTGGAAGTGACA  
GGTATTAATAACGGCATATGAAAGCTTAAAAGTCATCAAATACAATCAC  
TGGGTACTTTTGATTACCCAAACCAGGCATTTCTTAAACTCCCCACTTC  
TTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCCGCGT

&gt;145.1

ACCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTTCGTGCTAAG  
ATGCCGTTACGGAAACATCGCTGTCTGTTTCAAGAGCTATGAGCATTGTTT  
CACA

&gt;146.1

CCCGCGGTGGCGGCCGTTCTGCTTAGCCAGTTTATTCTTTATTTTTTTAC  
TGGAGTCATTGCCAGTGATGGAAACGGTGTTTGCTTCTCTTTCAGTCAAG  
ATCTGCACAAAGTATAGCATTAGGTGGTATTTATTGTTTATATTATGAGT  
TCTACATTCATCTTCCAGCACTCTGAAGTTATCAGCAAGTTCTCAGTCA  
GTTCAAGGCATTGGATTCTGCTTGATTTCTTTTTAATTCATTGTTTTGA  
CCCCTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCAC  
CACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCACTGGTCCCCAAGT  
TAACAGTGGATATACTTCCTGCA

&gt;147.1

ACCCAAGGTGGGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTC  
TTGTTAGTGTTGTTTGAAAATAAACAAAGAAAATGCAACAAAACAAAA  
CCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCT  
TAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAATA  
AGCCCAATTCTTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTT  
TTTCTGATTTAATTATGGATTACGTAATCCAATAGTTGGCAACATTATAA  
AACCCTAACTTTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGG  
ACATAACCACCA

&gt;148.1

GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTCG  
GGTGCGAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGC  
TGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTA  
CAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAGTGTCTGTTCTTGT  
GCTGAGTTTCAGGGGCCCTCAGCTTGCGGGAAATCCCGAAGATGGCCAAA

Table 3

GACAACTGAACTGTTGCTTCCAGGGCCTGCTGATTCTTGAAATGT  
GATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAGTGCA  
>149.1  
TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCT  
TCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTAGCATA  
ACAAGGAGGGAAAAGAGAATGCAGAGAAGAGGCTGGTGATAGACAAGTTTC  
ATGTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATG  
GAAAGAAATCAAGAATTGGG  
>150.1  
GGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGAT  
GTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCAC  
AGCCTGGTAGCTCGGT  
>151.1  
CCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTA  
AAGAAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCCTCCTGTCTTT  
TGAATTCCTATTCTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAA  
ACGTATCTTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAACTCAAACG  
AAACCTTTTTAAAGTAGTTTTGTAAAAGCTCAAGGTATGCCATTTCCAGA  
AAGTGCAGATGAGCACCATTGGCATTACCCAAATTCTGTCACACATTGA  
GCAATGAAATTCAGGAATTGGACAATGACCTCTTGGCATATGAAAGAATT  
AAAAGAGGGC  
>152.1  
GCGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGAAGAAAACATTGGAC  
AAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGC  
GGAGTTTGCTTCACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTG  
ATTCTCCTGAGAATGATATTCCTATGGAGATCACCACGGCAGAACACAG  
GTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGACAGAGTGGCCCCCTC  
CTCTGAAGATCGACCTACTGGATTAGTTGT  
>153.1  
GGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCC  
TGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCC  
TGCCTCCATCACGAAAGCACATATCATCTGTCCCTTTGGATTTTACTTCC  
AGGACGCGTGTGCTCCCGAGCGTGTGTTGCCTTATGGTGCCGGCAGAGCC  
TCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAGAATTTGGAATGC  
AGATAATTTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACACTA  
CCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAG  
TATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTTTGGTCAGATGAA  
GAAGTAATGGGATCACATATATATGTAAG  
>154.1  
TCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCGGCTTTCAGCGCGC  
GTTTCAGGTGCTCAATGAGGTGCTCGGCATCTTCGAGACCGATGGACAGG  
CGGATCGTGCCCTGGCTGATGCCTGCGCCCGCCAGCGCTTCGTGCTCAT  
GCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGGCTGCGGCAATCGC  
CCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAATGAACTTCTTG  
CCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT  
>155.1  
GTGGCGGCCGCCCGGCAGGTTTAAAAAGAACATGTATAAACGCTTAGCAA  
ACCCTTTTAAATGTTCTGAAGTCAGTCTTTGTAAGTGAAATCGCTGGAGA  
CTAGAAAGTATGAAATGGCAGTCTACCTGGGCAACCTACAAAAATTTAG  
CTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTGATCTCATGGAGTGGGGA  
ATGGGAATTGAACCAGAACTGGAAAATTTTAGGAAAGTTTGTTAACTA  
CTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGA  
AAATTATTTGGGAAAGTTTATTAATACTACTCTTCTGCTGAGTAAATTTAA  
ATGTGTTCTGGACATTGTTGAGGTCTAGAATTGTCTATACAATGCCCTGT  
ACC  
>156.1

Table 3

ACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCTTGGCTTCCTATAG  
CTTTCTTTTTTACAGAGGCCATGAAATGCAATCCAGCTGAAGTATTATCA  
TCTTGTAGCATTTCAAAAGGAACGTCGAAGTCATCCAAAGGATGGGAACC  
ACAATGTTCTTGTGTTCTTGGGTTTCTTAATGATTTCTGAATCATCAT  
TATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTTTTCTCCTC  
AGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTCCTTG  
CCTTTTTTACTGTCCTTTCCTTGTCTTACTTCAGGT

&gt;157.1

CGGGGGCGGCGGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGGCCGC  
TGCGACAAACACCCACAAAATGGCGGCAGCGCCGTGCCCCTAGAATCCC  
CCGAGTCGCCTCTCCCCGCGT

&gt;158.1

TGGCGGCGGACTCGCTGACCAGACCAGGCCCCAGGGCCCAGCTACTCGA  
AGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGAC  
CCAGGCTGGGGGTGCACGGATCTCACTGGGGCTAGTTGGTCGGATGGGAA  
AGCCCCATGGGTCCACCAGGATGAGGTGTTAACTCTATCAGGGT

&gt;159.1

ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGG  
TCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGCATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCTTA

&gt;160.1

ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGG  
TCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGCATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCTTAG  
TGGAAAGAGGCAAATTTCTACGT

&gt;161.1

GGCCGAGGTACCATCCTATTAATACTAACTTCTGCTTCTACATACTGTAG  
ACCTTTCTGGATGATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCAT  
TTATATTGGACTGACTGATATGGCTTTCTATACCAAAGGTAAATGCTGAA  
TGAGAAAATCCTGACTCTTGAAGTATCTATATACCAAGAAGTTGACCTC  
ATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAGGTCACACC  
ACAGGATATAACCCATTGGCAGTGCATTGATGTGGGGATGTGCAACTGAA  
TATCCGGGCACCGCCAATCACAAGTTGCTGTTGTTGATGCTGGAAACGGT  
GGCCTTCAACGCCGCTTCCCCCTTCCGGGAATCCCCGCG

&gt;162.1

GGCGGCGGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT  
TTGGGCAAGTGATTGACTGTTGGATATTCTTGTCTGGATTCTCCTTCTT  
ACGTAGAAATTTGCCTCTTCCACTAGGAATGTATCACGCCAAATTTTGG  
CCTTCTTGTGTTGTCGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAGGCACACGAATA  
TCAAAGTCATATGGCATGGATTTCCCCTTGACCAGTCCAAACTGCCCAAT  
ATGGTAACCATGGTCGGCGGTGTAAATGATGT

Table 3

&gt;163.1

TGTACATTGTCTTAAATCTGTGGCTTGCCTGTTCAATTCATTAGTGGTG  
TTTTGTTAAGCAGTTTTTAATTTTGATGAAGTGTAACCTATTCATTTTT  
ATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTTGCCTTCTCACAA  
ATCACAAACATTATCCTATGTTTTCCTTCAAAAATTATATG

&gt;163.2

TACTAAAGAAATTTGAGGGATTTGCTATAATGTTAGGGATTTTTCTAGAT

&gt;164.1

TATTTAATTTCTTAGTGTCTCAATTTCTCCTCTATAAAACAGAGATAAT  
AGTATTTAGCCCAGAGGGTTGTGGTGAAGTGT

&gt;165.1

TAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAATTATTC  
CTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAG  
AAGGGTGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTT  
ACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAAACCAGA  
GGGGAGCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTG  
CCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTT  
TTAGTTTGCAGTTACCCCTAAAGGTGACCAATGAT

&gt;166.1

TGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACAT  
GGATCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTCTGTCTCT  
CATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC  
T

&gt;167.1

AGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCATAGAAGAGCTTA  
TCACCTTTTCATGATCACGCCCT

&gt;167.2

CCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAA  
C

&gt;167.3

ACCTTGAAACCCCTAACCGAAGTTACCCTTCGGGCCCGCTTCTTAAGAAA  
CTAAGG

&gt;168.1

CCGCACGCTGGCATTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTT  
TCCTAGGACAGTTTCGCGGAAGAAGTGGCTCACGCCCTCCAGAGCCACATC  
ATCGCGGTGCAAAATAGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCCTGCA  
GGTACCTCGGCCGCTCTAGAAC

&gt;169.1

GGCCGCCCCGGGCAGGTACTTCCACTATTATTGAATGTATTCTGTATTATA  
ATTGTATATTTGATTGCCTATCTCCCCTCAACTGCATTATACATTTTCAT  
GGGTGAGCCAGTGTCTTTTTCACTCTATTTTCAGTGCCCTGCACATTTTCT  
GGCACATAGTAAGCAT

&gt;169.2

AAAATACTAAAATCCGAAATGCTCATAAAATTCAAAGCTTTTTTGAGGAC  
CTGACCTCGTGCCTCAAAGGAAATGCTCATT

&gt;170.1

TGGCGGCCGAGGTACTTAGCTGTGTTTTATTCAAAGTCTACATTTTATG  
TAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTACCATACA  
AATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAA  
TCCAGGGAGAAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTG  
ATTGAAGGTTTACCATCATCTTCACTTCTTTGGGCCATAATTCACCCA  
ACCGTTTGGTGGAGCCTGAAAAAATCTGGGCAGAATGTAGGACTTCTTT  
ATTTTGTTTAAAGGGGTAACACAGAGTGCCCTTATGAAGGAGTTGGAGAT  
CCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAAACAATG  
AGGAACATTTTCAATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACAC  
TAAGTTATCCCTTTTGTGCTAAAATGGACAGTATTGGCAAATGATACCA

Table 3

CAACTTCTTATTCTCTGGCTCTATATTGCTTTGGAAACACTTAAACATCA

>171.1

GGCGGCCGCCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAAT  
GGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTC  
GCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCCAAGCAGTCTGGGAAGT  
GTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCC  
GGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTGTACCTCGGCCG  
TCGAGCGGCCCGCCCGGGCAGGTACAACCTTTTATACAACCTCAGGAGATTAA  
AAAAAATCTCCACAAGAAGAAGCAACTCAGCAGGCCCTGGCATTAAAC  
ATTTCCAGAATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATA  
TTTAAGTTACACCAAGATTTCCCTCCAATATGTGCCTTTTCTCAAACCAAT  
GCAACTAATTCATTGCTAATACTGGGGCATGAATTTTGGCAAATGTTTA  
TGGTTTTACTTTCTTCATTAATCAAAAAATTTTTTAAAGTGCTACCAAGC  
AGCAAAACATGTGCATCAGTTCTCTGCTCATGGCAGAAGTGCCCACTGT  
GAAA

>172.1

GCGGCCGGGTACAGATTTAAGGTTGATGGACTCAGGGTAAGGATAGCTAC  
AGCTGTGTGGGGCTGAAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGG  
CTCTGTTTTTATTGTGACACACTGAGTTAATAAAGCACTTACTGAGGGAG  
CCAGAGCCCAAACCTCTAAATGTGCTGTAGAAAAAGGGCCAAGTCATTGAC  
TGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGCCATCT  
GGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTAT  
CATGGTGATTAATAAATTCAAACAAAGCTGAATGATAAGACCCCAAGATG  
GAATACAGTCTGAGAAAGGCCTGGGCAAAGGGAGGCAGAGGGACTGAAGG  
AAGCAGGTCAAGGAAGATACAC

>173.1

TGGCGGCCGAGTACGCGGGATAGGTGGAAAAAACAACCTGCCATTCAACAG  
TCAAGGAACCCAGGGCCAGCTGGAAGTGTGGAGCACACATGCTGTGGAGC  
ACACATGCTGTGGAGATTGCAGTGTGTCTGAGGTTTGTGTAGTAGTGGA  
GATTTTAGGTATGTAGAGCAAGTTGAAATGGATTGAGACTGCATGGGGGC  
ATAAATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGAGGA  
CATAAGGAGAGACAAAAACAGTTTTGTGCCATAAAGTATTTTTTCAAAGA  
CACCAGATGTGGGTAAATGAAATTATTAGTTCAC

>174.1

GGTGGCCGAGCGGCGGCCCGGGCAGGTACCACTAGGGTGTTGTTAAAGGA  
CTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAATGGAATGAAAT  
TTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACATCCACTATGGT  
TTAAATCCATGAGGTCACAATGATACTTAATTTTTTATTATTCTGAAAAC  
CAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTCTCTCAA  
TGAAATATATCTTAAGAGAACCGAA

>175.1

AGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTG  
TGGACGTAAAGAAGGGAATGAACACAGAGAACTTTCAGCCAGATTCTG  
AGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAACCATGCAAATGC  
AGCGTGTGTGGGAAAAGTCTTCTCCGTCATTTCCTGGACAGGGACAT  
GAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAGAG  
AGACGCCCCCGGAAACAGAAACAACATGGGAAAGCCTTCATTTCCCCAGT  
AGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATG  
CAA

>176.1

ACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTTTCCTTTCTC  
GTTCCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCGTCCCCGCTCC  
TAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTCGCTGGAGTC  
GATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGTG

>177.1

TCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATGAATTA



Table 3

TTTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGC  
AGGATGTGGTTCTGCATCTCCCCACAGACGGGGTGGTTCTAGA  
>178.1  
TGGCGGCCGCCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGG  
AATATTCATCAGATTGTCTCTGTAAAAGTGAATCACAAAAATTCCACCTG  
TG TAGGTGTGGGACTGGACAGCTGAGTGACAGGGCCCTGGGAAGAACAGA  
AACCACTTTTCTCTTTCTCTGAAATATCAGAAAGTTAAAAATCTACTCT  
GAGTTATATGTGCATCAATTTTAGACATATTGCTGATTTTATTATGAAAA  
TGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCCAC  
AGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGT  
>179.1  
CGAGGTA CTACAGT CACGCAAATTCAGTGTCTGCGTGACGGCTCTCCA  
TTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAAT  
TAAGACCTTCTGAGGATGAGCGATAGATAAACACACCTCCTCTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCAAATAAGAACAAGGACAC  
ACATTGTGTCAGGTCACGAAGATCATTGAGTTTCCATATGCTGAAGGTTT  
TTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT  
GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT  
CTGAGACAGTCTGATCAGTTT  
>180.1  
GCGGCCGAAAAC TGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAA  
GGTACGCCACAGAGTGTGAATAGTGGA AAAACCTTCAGCATATGGAAAC  
TGAATGATCTTCGTGACCTGACACAATGTGTGTCTTGTCTTATTGGA  
GAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGAT  
CCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTT  
TATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCACGCAGAC  
TGTGAATTTGCGTGACTGTGAGT  
>181.1  
GGCGGCCGAGGTA CTACAGT CACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCTTTGTGAACCTTCTCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATTGAGTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC  
TGATCAGTTT  
>182.1  
GCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCCT  
TTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGAT  
ATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAA  
CGCAGGAAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCTC  
ACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAAAC  
ACTGGGAGAGCCGAACTAAAAGTCTTTTAGCACGGGT  
>183.1  
GTGGCGGCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAACTAG  
GAGCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATT  
AGCAGTGTGAATCTTGACAACTTATAAATGACTTCTCACAGATAGAAAA  
GAAAATGGTAGAAACCAATGGAAAGAACAATATACTGGATATTCAGTTGG  
AAAAAAGTAATTGCCTATTAAAAGTAATGCAAGCAAAGGAGGTCTCCATT  
AAAGAAGAAATGTGCTACTCTCATAATAATAAAAGGGCTACAACAGAC  
CATTGAATATCAACGAAATTTGAAAGGTGAAAATGAACAACATAAAATAA  
GTGCTGATCTTATAAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAG  
ATAATATTGCCAACTTGTAAGTGAAATGAAAATCAAAGAGGAGGGATA  
TAAGAAAGAAATAAGCAAACCTTTATCAGGACATGCAGAGAAAAGTTGAAT



Table 3

TAAATGAAGAAAAGCACAAAGAACTAATAGAGAAAAAGGAGAT

>184.1

GGCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGA  
TATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCA  
ACGCAGGAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCT  
CACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAA  
CACTGGGAGAGCCGAACATAAAAGTCTTTTAGCACGGGT

>185.1

GTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCT  
GTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGA  
CAGTGGTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATT  
GAGGGGTCCGAGGAATACCAGCGAAGCACTAAGTAATATGGATGATTATG  
ACAAAACCTGCTTGGAGTCTGCATTAGTTGGTGTGCAATATCGTTTCAG  
CAAGAATGGGGTGGTGCAATTCCTTGCCAGGTTGTCTGGTGACAGACGG  
CTGTCTTGGCATTGGTAGAGGGTCACTGGAACA

>186.1

CGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTG  
CACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGC  
TTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAACACACCT  
CCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACG  
ACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCCAAATAA  
GAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTGAGTTCCATA  
TGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAAT  
ATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCAT  
CTTTCTCTTGATCTGAGACAGTCTGATCAGTTT

>187.1

GGCGGCCGCCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAAT  
TTCCCAACTCCTTTGCTTCAGTGCCCTGATCTCTGAACATAACAAACCAGA  
AAGAAGTGGCAGCATGGACTTATCATTACAGCACAAAAGCATACTCATGG  
AATATTTCCCGTAAATACTGCCAAATCGCTACACAGACTTAGTGGCCATC  
CAGAATAAAAATGAAATTGATTACCTCAATAAGGTCCTACCCTACTACAG  
CTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGG  
TGGAACCAAAAAGGCTCTACCAACGAGGCTGAGAACTGGGCTGATAAT  
GAACCTAACAAACAAAAGGAACAACGAGGACTGCGTGGAGATATACATCAA  
GAGTCCGTCAGCCCCTGGCAAGTGGAATGATGAGCACTGCTTGAAGAAAA  
AGCACGCATTGTGTTACAC

>188.1

ACTTTTTTTTTTTTTTTTTTTTGTAACTACAGGTGTCAGATGCATCACA  
AAAGCAGAAGTGCCCTTTCAGCTCTTCTCTGTGCCATTCTTGTCAATTT  
CATGCTGCCTACAGCAACAGCATAATACTGCAAACAGCCATGATGTCA

>188.2

TCTCTGTGATTGACAGAGAGGGACACGTCGTAGTCAAGAGGTGTGCTCCT  
CAGAAGAATATCAGAACTCAACTCGCTGTGCCTCCAAGGGGCTCAATCCC  
TTGATTTGAGGGGAGGGATG

>188.3

AGCGGATGGGAAGTGATACTAGGTATGTAAAGGATGGTCAGTTACCTCTA  
AATGTAAGTTAGACCAGGACAGCCAG

>189.1

GAAGGAAAGCAGCTGCAAACCTTCCCATCTGCAGTGTTTGTCTCGGC  
TCCGGCCATCACTGCCACGATTACCCCTGGATGAATTCCTCAGTGGAAAT  
ATCAACAAGACTCAGCCACCTGCACCCAGGTGATTAAAAAGCTTTATTG  
CTCACACAAGCCTGTTTGGTGGTCTCTTACATGGACGCGCGGACATT  
TGGTGCCCTGACTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTG  
TCCTCCTGCTCTTTGCTCCGTGAGAAAGATCCACCTACGACCTCTGGTCC  
TCAGACCAACCAGCCCAAGGAACATCTACCAATTTTAATCAAGAATAT

Table 3

TCTGTGAAAAAGACTAAGATATCAGAGAAATTATTAGTGACATTATTAG  
AAGAGAGCTTCAGATGAAAAATAAGATCAAGAAAAGACTCTTGCTTTGAG  
AAGACACAAAGAAATCACATCATCTTATTGGGATTACTGGC  
>190.1  
CATCGCGTCCCATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGA  
GCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGC  
TCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGAC  
ATTGGGGAAACTTTGCAATGCCCGAAGACTTAACTCCCGATGAGGTTGT  
GGAAGTAGAAAATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACC  
TCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGT  
TGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACA  
GTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCAC  
AAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCA  
TTCCGATGTGATTGATAGTCAGGAACCT  
>191.1  
GTAATCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAATTGGGGGA  
TGCTGGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATG  
CCTGTTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTT  
CGTATAAGGTCTTTTTGAGGTTTATTATTTCTTGTCCATATACTTGAT  
GCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAA  
AGGGCCGACAGCCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAA  
GACAAGGATTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAA  
GTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACA  
>192.1  
TGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTC  
TGGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGT  
GCCTCTCCACTGAGGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTT  
GTTACAGAGGGGTTCAATTGCAGTGAAGGGCGGGTTCTGCAAAGACAAACA  
GGTCTCACAGATAGTTGCCCGCGT  
>193.1  
TTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGG  
C  
>194.1  
CGGCCGACGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCA  
AGAGCCAGCTTTGAAGCCAAGTGCCCCCGCGTACCT  
>195.1  
CCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAAC  
AGATCGGCAAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAA  
TAAAAACCCTGAAACATGACGAGAGTGTTGTAAAGTGTTGGAAATGCCTTC  
TAAAGTTTATAAAAGTAAATCAAATACATTTTTTTTTTCAAAAAAAAAA  
AAAAAAAAAAAAAGT  
>196.1  
GGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATT  
TTGACTGTTTAAACAACTCAAGATATGTTTTGCAAAATTACAAAACATTA  
TACAGGTGACTTAATTAATCTACTCCAATTATACACAACACATCATGC  
TGAAGATTGAGATTTATTTGAAACACTTAGTCTAATTTATATTAGTGCA  
GAAAAATCAGATTCAATAAACCACAATTGTAGAAGAGACAGATAAGTGTG  
TTTGTACATTTTACACAAATATAATTTGATATTTAATTAAGGGATGAT  
GAATCACAATCACCATGGTCGCGCCTGAGCGCCAACCCCTACCCCGTCG  
CCTCACTCGGATCCCCCGCGT  
>197.1  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGT  
GGAGCGCCTCACTAACTCCATGATGATGCA  
>198.1

Table 3

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCTCATGTCAGCCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGT

>199.1

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAG  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAG  
AAGAAAGGTGGACAGCCTGTTCTCTCTCATGTCAGCCTAGGGCTGGGAA  
CAGTTTGTGAGGACTTATCTGTTGT

>200.1

AAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGT  
TATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAACCTTCA  
GCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTG  
TTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG  
AGGAGCGTGACTGTGAGT

>201.1

GTTCAAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGC  
CCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA

>201.2

CTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAA  
GAAGTACCTGCCCAGGCGGCCCGCTCTAGAACTAGT

>202.1

TTGGGGCACAGAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAA  
GATGACGAGTGGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGG  
CTTCTGTCTGCACCATTTGATTCAATGGAGACTGGCGGGAGGAAATGGA  
AGACTAGGGTTGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAG  
GCAGACAATAATGCGTTCCATTTATAACAAGTAATATATATCAAAGACT  
TAAAGGAGATTAAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAG  
GAAGATCAAAGTTCCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGC  
AAAGACCAGTATGGT

>203.1

TCCTTTCTCGTTCCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCG  
TCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT  
ACCT

>204.1

CGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAACCTTCAGCATA  
TGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCTG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGACTGTGAGT

>205.1

CCGGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAACCTTCAGCATA  
TGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCTG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGACTGTGAGT

### Table 3

**>206.1**

CGCGGTGGCGGCCGAGGTA CT CACAGT CACGCT CCT CTGAACCATCCTTG  
GGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGT  
CTTCCAGAGCGCTTTGTGAAC TTCTCCAAATAAGAACAAGGACACACATT  
GTGTCAGGT CACGAAGATCATT CAGTTTCCATATGCTGAAGGTTTTTCCA  
CTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAG  
ACAGTCTGATCAGTTT

**>207.1**

CGCGGTGGCGGCCGCCGGCAGGTACATGGTTCTTCCTAGAAAGTGGTTC  
TTCCTTAATGTGTTCTTTTTACCCCTTTCTTCTTCTTTCACAGATG  
TTTCTTCTTCTTCTGCCACTTTTTCTTCTTCTTCTTCAACTGAATAG  
GGTAAAGGTAAAGGCACAACAAATTAACACTGTATCAGATCTCATTCTT  
CCAAAAACGTTTGAGTCTAGTTTTTTCTGTCAATCTCATCAACTACCC  
AATGTTTGTTTTGTTATTTATAATTGGGAAGGTTCTCCAAGGCCTACC  
ACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGA  
TCATGAAGTCATGATAAAAAATCAGGATTAACCAAAAGGTCATCTGATCT  
CCAATCATATTATGGGAAGAAAGTCAATTATATTAGAAATGGTTAAGAGCT  
TGCACTCTGAAGTCAGACGGCCTGGGTTTAATCTACCTGCTGCAACCCTG  
AAAAATTGTATTTACCCTTGGTGAAGCTCCCTA

**>208.1**

ACATGGTTCCTTCCTAGAAAGTGGTTCCTCCTTAATGTGTTTCTTTTTACC  
CCTTTTCTTCTTCTTCTTACAGATGTTTCTTCTTCGTCTGCCACTTTTT  
CTTCTTCTCTTCTTCAACTGAATAGGGTAAGTGTAAAGGCACAACAAAT  
TAACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTT  
TTTTCTGTCAATTCTCATCAACTACCCAATGTTTGTTTTGTTATTTTATA  
ATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGA  
TAGAGCTCAGAGCAATCTTCTCACGATCATGAAGTCATGTATAAAAATCA  
GGATTA AAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTC  
AATTATATTAGAAATGGTTAAGAGCCTTGCACTCTGAAGTCAGACGGCCTG  
GGTTTAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGA  
AGCTTCCTATCTATAAAAACCTAAGAATGTCTTATCTTACTGGACTGTTAC  
TGATTTAAAAAGAT

**>209.1**

CGCGGCGGCGGACGAGGTACACGACATAGGCACATGTGCAAAACACAAAGA  
AGGTGGGCTGCTGCTTCTTTCTATCTGCCCCTAGACCAGGCTCCTTTGCT  
TCACGTAAGATGGAGACTGTCCCATTCCTCTGAAGTTGCTGGAAGGACAT  
TTCCCAGGAAGAAACAATTCTCACTGCCTATAAACTGTAGTCACATGTG  
GGATAGTCAATAGAACATGAGAATCAGAACAATCTGGGCAAATGGGTATG  
GCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCATTATGCC  
AGGCCCTTTTGGCATATGGGTGCCTTCTGTGTCTTCTTTCCA

**>210.1**

GGCGGCCGAGGTA CT CACAGT CACGCT CCT CTGAACCAT CCT TGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCGGTGTGAAC TTCTCCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATT CAGTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTTCTTGATCTGAGACAGTC  
TGATCAGTTT

>211.1

CTCACC GCGGTGGCGGCCGAGGTA CTACAGTCACGCTCCTCTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCGGTGTGAAC TTCTCCAAATAAGAACAAGGACAC  
ACATTGTGTCAGGTCACGAAGATCATT CAGTTTTCATATGCTGAAGGTTT  
TTCCACTATTCACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT  
GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCCCCATCTTT

Table 3

&gt;212.1

TGGATGACATTGGCGGTGGTCCTTGATACCAGATAAGCCCTCAGTGTGAA  
GCAGCTCTTATTTTCTTGTCTTGAGATTGCTCTGGAATGGAAATTAGG  
CTTTTTGAAGGTGTGACCCTTTTGTTCATTTCTTCAGCAGTTACTTTT  
TAATTTTAAATGTTTGACACACAGTCTCTGATAAATGATCATTACCAA  
TCACCGATTACTCTCCTTGCTCTGTAAAGTGTGACACTGTCCCTTTGAGA  
ATCTGGCGACAGCTATGTATCCCATACCACACACCCCAAAAAAAAAA

&gt;213.1

GGCGGCCGTTTGAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTGCATT  
GACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCC  
GCGTACCTCGG

&gt;214.1

TTTTAACACAATATACCTAACATATTTTATTTCAATATCTAACCAGTAT  
AAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAAC  
AGAAGTAATACCTGATTAATTAGAATCCCAACCCTCATCAAGTGTGTGC  
TTATATAGAAGAAACCCAGTAAATGTTTGTGATTGAAAGATATTAATAC  
TCTTGCTTGGATGAGAGTGAGGAAAAAGGTATTAGTATTGGCTTTTCAC

&gt;215.1

GCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATTGCCGTTGACT  
CTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACT  
CTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGC  
CGGACTTGAGCAGGTCACTGGGTCTTTACACTTGTGAATTCGAAGCTTG  
CCAGATGTATCCTCAATGCATTGCCACTTCTGCCCCGGTTGTTACAGGC  
TGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCA  
GCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAG  
GATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT  
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCG  
TGATCCTAGACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATT  
GCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA  
AGACCTTTCAGAAATCTATTGTTAATGATCTTGCCTACATGAAGAAGAGAG  
AAGAGGAGAT

&gt;216.1

CCACCGGGTGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATT  
GCCGTTGACTCTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTA  
CAACTGCACTCTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCG  
CGTGCTCTGCCGACTGTGAGCAGGTCACTGGGTCTTTACACTTGTGAA  
TTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCCCCGGT  
TGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGG  
CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCT  
ACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGAT  
TATGACATGTTTGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACC  
TGACCACTCGTGATCCTAGACATGAACATGGAGTGGAGGCGAAAAATTAC  
GA

&gt;217.1

GCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGC  
AACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTCACAGTAAGAG  
TTTTAGCTGAATGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCC  
CTTGACCCATAGGTAGCCATGGGACAAAGTTCTAACCAGGGGGGGGTCC  
AATCTTTTGGCTTCCCTGGGACACACTGGAAGAAGAAGAATTGTCTTGGG  
CCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGCAAAAAAAAAA  
AAAAAAAAAAAAAGT

&gt;218.1

CGCGGTGGCGGCCGAGGTACCATCCTGTTCCACAGAGCCATTGCCTATT  
CTAAATTGAATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGAC  
CTTAATAGTGGAACATCGATGTGCCTCCCAACATGACAAGCTGGGCCAG  
CTTTCATAATGGTGTGGCTGCTGGCCTGAAGATAGCTCCTGCCTCCAGA

Table 3

TCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCATGCTGAGTTGGCC  
AATGAGTATGCTGGCTTTCTCATGGCTCTGGGTTTGAATGGGCACCTTAC  
CAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAA  
TGACAAGCATTGGACTGCTACTTGGTGTCTGCTGCAAACTAGGCACC  
ATGGATATGTCTATTACTCGGCTTCTTAGCATTACATTCCTGCTCTCTT  
ACCCCCAACGTCCACAGAGCTGGATGTTCTCACAATGTCCAAGTGGCTG  
CAGTGGTTGGCATTGGCCTTGCATATCAAGGGACAGCTCACAGACATACT  
>219.1  
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CCGCGTACCTCGGCCGCTCTAGAATAAGTGGGATCCCCCGGGCT  
>220.1  
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GGGAAGGGGGACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGG  
TGGGACCTCTTCAGAGAAGATCTGGTAAGGTCAGCAGCACAGTGGCCATG  
GAAAAAGAAAACTCTACAGCATATTTCCGAGGATCAAGGACAAGTCCAG  
AACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACCTTGTTGAT  
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AAAGCCAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGT  
ATCTGTTTAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTC  
TTCTGTGTGGCTCACTTGTTTTCCATGTTGGTGATGAGTGGCTAGAATT  
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ATCTCTCCAATGTCCAAGAGCTGTTACAATTTGTAAAGCAAATGATGAT  
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>221.1  
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GATACTACATATTCAAAGATAACTTACTGAAGCTTGTTACAGAACCAAG  
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CCCCAAATGCTCTTCAGGATTTAAATAACAATTTTTAAAAAGACACTTAA  
CACCACAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTACTCCA  
GATGCTGTATTCAAATGTATGGGTCGGTTGAAAAATAGATATAACCAT  
TTTTCTCATAGACAGCATCTACTTTATCACCATTCTGGGAAGTCTTCT  
TCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCATATA  
TCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCTGTATCCTCAA  
AGTGAACAGCTGCACCTTATCTTCTTAACCTCTTTTGGAAGACCCAGTTCA  
GATATTTTTTTGGGATAACCTTCCAAAATGTCATAACCAT  
>222.1  
ACGCGGGGAGTGTAACATATGGCCGGCCTGCGGAACGAAAGTGAACAGGAG  
CCGCTCTTAGGCGACACACCTGGAAGCAGAGAATGGGACATTTTAGAGAC  
TGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGGATTTTATATCTTA  
CTATGTTTCTCAGCAGTGTAGGGTTTTCTGTAGTGATGATGTCCATATGG  
CCATATCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTTGGGCTG  
GGTTATTGCTTCATATAGTCTTGGCCAAATGGTAGCTTCACCTATATTTG  
GTTTATGGTCTAATTATAGACCAAGAAAAGAGCCTCTTATTGTCTCCATC  
TTGATTTCCGTGGCAGCCAACTGCCTCTATGCATATCTTCACATCCCAGC  
TTCTCATAATAAATACTACATGCTGGTTGCTCGTGGATTGTTGGAATTG  
GAGCAGTTTTTC  
>223.1  
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CCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCA  
CAAGGCTCATCGATTTACCTGGAAGTGGTGGCTCAGCTGATGGGGGAA  
GTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCCG  
GTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCC  
CACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTA  
CACAAAACTTGCGAGTAGAGGGTTTGTAGAGT

Table 3

&gt;224.1

GGCCGCCCCGGGCAGGTA CTCCCTGTAAAGGGGAATTTCCATGCCGTCTAC  
AGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAG  
GAAAAAGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATG  
GTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTG  
GCAGCCCAAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTA  
CTGGGCCCCAGAGGCTGGGCCCCCTGGACATGTACAGACTCTCATTATGA  
TGTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGA  
AATGAAAGTGATGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATAC  
TAGGAAACCCAGGTCTATTTGTTATCAGAGTAAGGATCAAGCCAGATAGC  
CTGTTATGTAATTTCTCCGATAAAAGATTTTGAAAGCAGGTGCTGTGGGC  
ATCTGTATGGGGAATCGCACTCATAGAATTATTTTCATTGTAAATATTT  
GGTATCAGGCCAAGCAAGGGAAAGAAGCTTACTGTATTACCATCTTT

&gt;225.1

CGCTCCCCGCGGTGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGT  
CTGCGTGCACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGT  
CAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAA  
CACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGAT  
CCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTC  
CAAATAAGAACAAGGACACACATTGTGTGTCAGGTCACGAAGATCATTGAGT  
TTCCATATGCTGAAGTTTTTCCACTATTCACACTCTGTGGCGTAACCTT  
CTTCAATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTC  
TGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTT

&gt;226.1

ACGCGGGATGGATAGCCGCTTGCAGGAGATCCGGGAGCGGCAGAAGTTAC  
GGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATT  
GGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAG  
AGAACTTGCAGGGCTTCTATGATACCTCTGCTCCAAATGCAAAACGTA  
AGTATCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAG  
GATGAACTAGAAATGCAACAGGATGAAGCTTATCATCAATTCATTGTATA  
AAAATAAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCT  
TTAGATAAGATAAGGCTAATATCACTGACTGATGAAAATG

&gt;227.1

ACGCAAAGTGATTTCAGAGAACGCTGGGGCTCACAGGCGCTGTAGCAAACG  
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TACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGC  
TCTGCGCATCACAGAGGGGGGCATGGTGTTCACATGGGAAATTGTTAA  
ACAGAAATCAGAGGAGCCATCGGTGTCAATACCTTCTACAACTGCAT  
TATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGAGATGGAT  
AAAATGTTAAAAAATCAAGCAACTTCTGCTACTTCTGAAAAGGATAATGA  
TGATGACCAAAGTGACAAGGGT

&gt;228.1

AGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAAGAATCCTTA  
GCTGTACTTTCTGTCTCTCCTGGAGCTCCCTCCTACCCCTAGCTGAGT  
AGGCCAGGTTTTGGTGCAAATCTCCACATTGGCAAAGTTCCTGCATAT  
GCTGCGCAGTATGTGCCTTGAATAAAAATCCTGAAGATTAGATGGTTCAG  
GCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGG  
GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCAGTATGTAGCTTTAA  
AACAGTTACATATAACATGGAACAGTATGACATGAAAAGAGAGAGGTTTA  
TAGAGGGAG

&gt;229.1

GGCGGCCGAGGTA CTACAGGATGATGGCTTTCTTCTCTGCGGTACAG  
GCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAA  
CGGGTAGATGAAATTATTTGGGTGAAGACAAATCAACTGCAACGCATCAT  
TCGGACAGGCCGTACCTGCCCGGGCGGTGAGCGGCCGCCCGGGCAGGTA  
CTT



Table 3

&gt;229.2

TGTTACATTGGTCAGTTTTTACTTGTA AAAAGTATTATAGAAGAGTTTTA  
TTGGAATGTTATTTTATTAAGCCATTTTCATGGGTATTTTTTTTAAAG  
TTTAAGAAGTTTTTACAACAGGCTGGGGGGGGGGGGTTACACC

&gt;230.1

GGCGGCCCGCCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAG  
CATGG

&gt;231.1

TCCCCGCGGTGGCGGCCGAGGTACGACGTTTCCATCAGCTTGTCTGTTTC  
ATTCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTG  
ACAAGACGCGGCTTTTATCTTCACCTTTCTCTATAGAGCTTGAGGACCCT  
CAGCCTCCCCCAGACCACATTCTTGATTACAGCTGT

&gt;232.1

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TAGAGCTGGTATTCATTTACACATAATTATCTTATACCGTTTGGAATAAG  
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TTAGTTCTTGTCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATT  
CCTAGGGGAGTTTCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGC  
AATCTCAAAAAAACATTTACTAAAAACCAGAGGAAAAAATCTTATAAC  
TTTGGGAG

&gt;233.1

GCGGCCCGCCGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTG  
CAACGGAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTA  
TTGCTGCTTATTGTTAACCCCTATAAACGCCAACAATCATTATGACAAGAT  
CTTGCTCATAGTCGTATCAGGGGTCTGGGACCAAGGCCCAAATGTCTGTG  
CCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAG  
AACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGA  
ATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAG  
TTTTGCCCATTGACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACC  
ACAACGCAACGCTATTCTGACGCCTCAAACTGAGGGAGGAGATCGAGGG  
AAAGG

&gt;234.1

GGAGGCGGCCCGCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTG  
ACGC

&gt;234.2

CACACATTTTACATATATATATGAAACTGTATAATGTGTTTCGCTTCAGTG  
TCTGGCTGCTTTTACTCAACATTGTGAAATTAATTCCTGTTATCGTATAT  
GGGATTA AAATTTGTTTGCCTAGTTTTTGCCTTCTCATTGCTTCTGAATT  
GGGGCAGCTTTGCCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTT  
TTATTTTCAATAATTTGGAGGGACATGGGGGAGGTGTGCTACAGAACTTAG  
TAGGTAGAGGACAGGGTTAGTGCTGAACGTTCCACAGT

&gt;235.1

CCTCCCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAA  
CGTTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAA  
CTTGAATCCAGGTCTGTTAGAAATCTAGGTTTGAGAATCCATATTCTTTC  
CACTTCCCGCGT

&gt;236.1

CGGCCCGCCGGGCAGGTACCTACGCCACAGACAGCCAGAGGGAAAGCGAC  
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GAAAACAGCCGATACTGGCAGCCATTGCAGCTCCAACTGCAGAGGCAAG  
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TCGGTTATGTAAATTCATATATGTATTTTGAATCAGTTCTTATAAACA  
GCTCGATTGAGTTTGTAGCTAAATTTATAGTCTAGGTAGTATGTTACATTT  
GAACTTTGTCTTAAGAAAAGTTGACTGTTTCAGATATTTTCTACTGTAA  
AGAAATATACTTTTCTATTAAAGATCTGT

&gt;237.1



Table 3

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATC  
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GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC  
GGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
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GGTTTGTTTAGAGT  
>238.1  
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TGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAATTGTGTTAGTGGGT  
AAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGCCCGGAAA  
GTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA  
ACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTAGTTGACACACCAG  
GCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGA  
>239.1  
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CCGTCTTAATTATCTAGAGGCCAGGAGGCAAAGCCTAGCACGTAACAAAG  
TATGTGCTTTGTAAGTCTGATTAATTCAGTTTCTTAAGTGGCAGAGCA  
GGTCATCAGTGTATCTAATTCACACTATTAATACACTGTCTTGCTGAAGA  
GTCTGACCTGCCCAGAACCCCGTTATGGCTAGCCCAGGGAAGCAGTAAAC  
TGCAAAGCAGAGAAAAGGGGCGAGCTAAGATGAGGCTAGTGCTGGCTGAGT  
CCCAGTTAGGTCTGTTACTGTTCTGTTCCAATAATAATCCAGGATGACT  
GTTACTCAGATTCAGTGCTATGTAGAAAATAGAATGCACAGCCAAAAACA  
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>240.1  
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GAGATCCATGAGGAAGTCTTGAAAAGAACGTATGTTTCTTTCAATTCCAT  
AAAACATTTCAGCCAAAATAATAAAAGAGGCGCTATTACTTTGTTTTGGGT  
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>241.1  
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TATAAAAGTAAAATCAAATTACATTTTTTTTCAAAAAAAAAAAAAAAAAA  
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>242.1  
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GACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCT  
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>243.1  
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TTGGCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACT  
GGCTTGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTA  
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC

Table 3

TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTAATAAATTCTC  
CCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT  
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>244.1

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TCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTTGGGGCATTCTT  
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TAGCCATGTTTTACCTTGAGGGCCGAAGTTAATTTCAGCGGGAGTGAACG  
ACAGGGGTGGGCTCCACTTTATCCAGTGCCTCGGAAGCCGGAGGGCCCC  
CACCAAAAAGAGCAAGGGGAACCCTCGCCCTCAACAAGGCCTGCATCTCC  
GGACTGGAGCTCAAGTATAG

>245.1

ACAATTGCTTGAGTGAGTTCATGGTCCGTAGGAGGATGACCACTAGCCCA  
CCACCTTCCACTGTTTCTACAGTCCTGGCCAGCAAGTTTGGAGTTAAGGC  
TTCAAAATCCTGCAGCACACATGCCGAAGGTATTGCCCAGGATCTTGT  
GGGTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGT  
TCAAAGGGGTGCTCCTGCTTTATGTTTCAGTGTTCCATTCTTTATTTTCTT  
CTGCAGCTGTGCGATTCTTTCTTTTCG

>246.1

CGGGTGGCGGTGCTGGGGATCAGCGTAGGTGAGCTGTGGCCTTTTGCGAG  
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CAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCCAAGAAG  
AACTCTGAAGATGATTTCAGCCTTCTGCATCTGGATCTCTTGTGGAAGAG  
AAAATGAGCTGTCCGCAGGCTTGTCCAAAAGGAAACATCGGAATGACCAC  
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AAAAAAAAAAGT

>247.1

CTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGA  
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TTTATTCCCCTTACTCAGTCCCAGGGACTTCTCCAGTAGCGACAACCTCTG  
CGGCCGCCGCCATCTTC

>248.1

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CAGGCTCATGTAATACTGATACTCAGTAAAAGGGTCCATAATCCAAAT  
TTATATAACAAATGGGGCTTGCTATAAAATCTCTTACATTTTAATACTTA  
CTCTTAATAAATCATCTATTCTTCCCTCCTTCTCTCTAAGGCAGAATTC  
TACTGTTTTCTAGGGCAGATATTTTTCTATTGTGAGGTGCGACTGGGT  
CTGTCTGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTG  
TGTTGCCAGATCCCGTAAATGAGGGACTGT

>249.1

ACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAG  
ATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTG  
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GACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCT  
GGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATG  
AAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCA  
GAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCA  
AGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGT  
GAGT

>250.1

GGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTC  
CCTTCGAGGTGAGCCATTATCTTTAATCCGGACTTTTTTGTGGAGAAAC  
TCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATC

Table 3

ACAAGGCTCATCGATTTACCTGGAAGTCTGAGTTGGCTCAGCTGATGGGGGA  
AGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCC  
GGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCC  
CCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCT  
ACACAAAACTTGCAGTAGAGGGTTTGTAGAGT

>251.1

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCAT  
TTACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGACCGATTGAGTGGCA  
GCAGGG

>252.1

GGCCGAGGTACATTTTACTACGCACCCTTACGCATTCTTTTTCTCACCTC  
TGTGTGTGTGTGTGCGTGCACATGCACACACAAATGGGTGAAACAATT  
CTCACCATACCAAGAGCCACCGCGCCCTGCCGAGAATTTGCATTTCTAAC  
AAGTTCCCAGGTGATGCTGACACTGCTGGCTCATGGAACCACTGCTGTAG  
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TTTTCTGTGGTTACTGGCTCATGTACATAAATTCTTTTAGGATTCAAAC  
ATGTTTGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGA  
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TTTTACAAAGTTCAGATATATTTAAATTAGCCTATTTAATCT

>253.1

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AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTTAGAAGCATT  
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGCTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT  
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>254.1

AGCTCACCGCGGTGGCGGACGAGGTACTCATGGTTGCTGTAAATCTGGCC  
GCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATGAGATCTGGCTATT  
CTGTCTTGATGGTGGTCAAGTCCCCGCGTACCTGCCCGGG

>255.1

AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAG  
AGGGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGC  
CCAATACGGCAGTATGAGCTTCAACCCAGCACACCAGGGGGCCAGTTATG  
GGCCTGGAAGGCAAGAGCCCAGAAATCCCAATTGAGAATTGTGTTAGTG  
GGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCG  
GAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTG  
AGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTAGTTGACACA  
CCAGGCATTTTCGACACAAGAGGTGCCAATGCTGAAACGTCCAAGGAGA  
TTATTCGC

>256.1

GAGAGAAATCAACTATTCAGGACCGGCCCCCACCTTTCCTCAGGAGTCAT  
TTCTGTTCCGCACAGGCCTGCTGAACTGGGTGCTTTATATAG

>257.1

CGCGGTGGCGGCCGAGGTACTCTGACTTGCAGGGCCACAAGACCGGCCTT  
GCGAGCGTCTGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCTCTT  
GGAGGTACAGTCAATTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAA  
ACAGAACATTGGGAAGTCTTCGGAATATTCTCTATCTTCTTACCAACGA  
GTAAGACGTTTGGGAATAATGGGAC

>258.1

ACGTGACCGACGCCAACATTGCGGCGCCAGTTGCGTCCACCTGCTTGTG  
CGCAGAGGTTCTCATAGAATTTTCTCTTCACTCAATCATATCTACTT  
ACACAAGCAGTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGAC  
AAAGAGATATTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTTCAGCT

Table 3

CATCCGGTTCCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCAT  
TGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGTGGATCCC  
>259.1  
GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCGGGAGGCGTTAGCGAAGG  
AAGAGAAAAACCGAAGACGAAGCCACTACAGCCCCGCGTACCT  
>260.1  
TGTAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTAAT  
TGC GTT GCGCTCACTTG  
>260.2  
GGGCGGCTTCTTTCCGCCTTTTCTTCGGCTTCAACTGAACTCCGCTTG  
CGCTTCGGGGT  
>261.1  
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CACATTAATTGCGTTG  
>262.1  
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CTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTGCTCACGG  
AGGCACCCCTGAACCCCAAGGCCAACCAGGAGAAAATGACTCAAATTATG  
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ATGGTGTCAACCCACAATGTCCCCATCTATTAGGGCTATGCCTTGCCCCAT  
GCCATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCAT  
GAAGATCCTGACTGAGCGTGGCTATTCCTTCGTTACTACTGCTGAGCGTG  
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GAAAATGAGATG  
>263.1  
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AGACGCCAGCCAAGGAGAAGGGATGGTCAGGG  
>264.1  
GGCCTTTAAAGCCTTCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCTT  
CC  
>265.1  
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>266.1  
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GCAGAGCAGACTGGCAGACACAACAGCACAAAGGAATGCAAGATGCATCAT  
TCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTG  
CCCGGGCGG  
>266.2  
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GAAGTTTAGCGAAAATTCGGCCTAAACAGTAATAAATGAAAATGGAATGG  
AATCAAAGTTC  
>267.1  
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GCGGCCGAGGTACGGATACAATTCGGCTGAGTTAGATTCCAAATTTCTAAC  
CTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCT  
TTGCCAAGCAATTGACTCCATCAGGCTGACCATCCAGCGAAGCAAGGAAT  
GGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATA  
TTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTTCTTGGA

Table 3

CTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATTCCGG  
CTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>268.1

ACATTTATATGAAAGTCCTCACTTTCAGAAGCAGAAAAGGAGTAACTAGA  
TGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTACTGA  
ACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGA CTGCA  
AGTGGAAGACCTTCTGGCACTGCGACCACTAAAACGTAACTCCAATAAT  
GAAGAACTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCC  
ATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAATATAACTAGA  
ATGATAACTGTGATGGCAGGCATCAACAGACCTTTCAGAATAGAAATGAA  
AGAAAAATGTGATTATTAAATTTCCAGACACTAACCCTTGACAGATATAA  
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GAGAAATTACTTCTTCTTGACACCTTATAACTTGACATTGTCAGATTTAA  
TTTTTT

>269.1

TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACT  
GAAAGACCAGCAGAGGCATAAGGTTTCGGAAGAGGTTGTTACCGTGGGCA  
ACTCTGTCAACGAAGGCTTGAACCAACCTCGAGCGGCCGCGGCGGCAGGT  
ACAGATGCACAGGAGGCCATAGGGTTTAGGCAAAGGGGAGCACAAAAGTT  
GAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCCAGGGGCAGGAG  
CTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCACTAGC  
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CGCGTACC

>272.1

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CGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTTGATTAACCTTGTGTGTCAA  
TGTCCCACCCGTCCCAGGTAACATTTTCCCCCTGAGGTCCGGGGTAATT  
TAATGGCTGCTGGACAAAACCTCCAAAGTTCTTGAAAGATCAGAAATGAT  
AGTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCCCTC  
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CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGC  
AAGAAGATCCATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTGAG  
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ATTCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTGC  
TGCA

>272.2

CGGCACTACAAGCCCAATCAATGAGAAGGCCGGCGGTTGCAGGCAAGAAG  
CCCTGTGGTAGGTAA

>274.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCT  
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CAAGGCAGAATTCAGCCCTCATCTGCCAAAACCTACCACCAAAGACTTAC  
AAACGGGAGCTTTCGCACCCCCCATTGTACGCGGGGGAGGAGCCTGAGGA  
AGAGGGCGGCGACGGTGGTGGTGA CTGAGCGGAGCCCGGTGACAGGATGT  
TGGTGTGTTGGTATTAGGAGATCTGCACATCCCACACCGGTGCAACAGTTTG  
CCAGCTAAATTCA

>274.2

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>276.1

CGCGGTGGCGGCCGAGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCT  
CACCGCACCGGCCCTCGGTGCGATTACGCCTCTCCAGTTCTGCTGGGGACG  
TTCTAGCCTCGCCCCACGCGCTCGATCTTTATGTTATACCGTCACTCCC  
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GCTCCAAGAGCCTCTCCCGG

Table 3

&gt;277.1

GGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCTTGCCTTCAGCT  
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CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC  
CCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAACACAGGCCTCT  
ACCCACTTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTG  
GATCGGCAT

&gt;278.1

TTGGAGCTCCCCGCGGTGGCGTTCGCCCCGGGCAGCTACTTTCATCCATAA  
AGGCCTGCAGCTGTTTCATTGATCCTTGCAAGTTCATCCATCACCAACTCC  
ATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTTCTGGTAGTCAGG  
TTTTGTATTAAGAAGTTCATTCTGAGAAGACCCAAGATATGTCATAGTT  
CCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATC  
TCTTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACG  
TTCTAAAGAAAACCTTTGTTATGTATTCTTCATCTCAGCCACAGATGCTT  
CCAAAGAAAATCTGATGCTTTTCCATTGAATCTTCAAACATTTTTGT  
AGAGTTCCATCAGTTTCCAGTCCGTCTGCA

&gt;278.2

AATGTTTCAATTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCA  
AGACTGAAGCCCTTAGTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGA  
GAAC

&gt;279.1

GCGGTGGCCTCCGAGGTACTACTCTGCACTGTTCTTTCTTTCTAATAAAA  
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TATGACCCGTGAGCCAACCACTTCCGATGCCAGGGTTCTGACACCTCAC  
CTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCACTTGGAAAGA  
CTACAGAGGAATCTTGCTCTGCATAGTTCAAACATAAAGAGAAGAGTTA  
ATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGG  
GAAATCATTTAAGAAGTGTCTGGTATTTTCAAATTTCTGTCAGTTGTTA  
CATTTGTCATAAGTAAATGTTTAGGAATAAAGGATGGAGACATGCTTATT  
TTATTTAACTCCCCCAAAT

&gt;279.2

AAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

&gt;280.1

CGCGGTGGCGGCCGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA  
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AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
AATATACAAGGCTCATCGATTTACCTGGAAGTGGCTCAGCTGAT  
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATACTT  
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACAAAAAAGTTCGAGTAGAGGGTTTGTAGAGT

&gt;281.1

CGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTC  
ATCTCCCTGGGAAGGGTGCCCCGAAGTGAAAGAGATGGCCTGGTGAA  
GCC

&gt;281.2

AGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAG  
CTGCAGCCGTTTTCCAGACAAGCATGATGTGGGGATGCAGAAGAATTCAG  
GACTGGAGGGGCAAACCTCCGATGTGACTGAGGCCCCACTGCCAAATGGCG  
GCATGCTCAGATAGCACCAAGAATTTGGGGAAAAAAGTGGTGCTCACAG  
CT

&gt;282.1

GGGCCCCAGGGGAAAAAACCTTTTGGGCCCCATTTTTTTTCCAATTTTCC  
AATTGGGCCTTGGGCCA

&gt;283.1

Table 3

GTACAGCATTGGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATTC  
TTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTTA  
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TGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAA  
AGCAAATGTGAAAATCTTCAAAATCCCAGGGTGCATGCCTTAGATAAATA  
CGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAGCCCATACC  
AACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAGGAGAAGCTT  
TAGTTGCTTGACTTCGTTGGATCAC

&gt;284.1

TGGCGGCCCGCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAA  
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GCACGCTCTTTAAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCCT  
CCTTTCTTGCCAAAGGGAGGGGGGAAACATACATTTATTATGCCAGTCTG  
TTGCATGCAGGCTTTATGGCTTCCTACCTTGCAACAAAATAATTGCACCA  
ACTCCTTAGTGCCGATTCCGCCCCCAGAGAGACCTGGAGCCACAGAGCTT  
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&gt;285.1

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TTTTGGGAAATATGATTGAAATGTGGGTTGATCGAATGGACAACATTACC  
CAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTCTCTCTTCTGCC  
ATCTGATAATAGTGTTATCCAAGATAAATTCTGTGGGATTATAAACATTT  
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CTTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAACCAAAAAGTAACA  
GAAGATGAAGAACCACCCACAGAAC

&gt;286.1

GTGGCGGCCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACG  
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CCTGAAGAGCATCCCACCCTGCTCACGGAGGCACCCCTGAAC.

&gt;287.1

CCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGA  
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TTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAGAACCTTCAGCAT  
ATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCTTGTCT  
TATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGATCACGGGACTGTC  
GTATGGATCCTCAATGCCAACCCCATGAAGCCAAGGATGGTTTCAGAGGA  
GGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAG  
CTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGC  
ACGCAGACTGTGAATTTGCGTGACTGTGAGT

&gt;288.1

GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAA  
CTCCATGATGATGCA

&gt;289.1

TGGACAGACTGGCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAA  
TCCGATAATTTTTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTTGA  
ATTTTTGTTTTCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAA  
AGAGTTTTCTTTGTAAGTGTTCTTTATTGAAATCTATAACGAGCAGATA  
TATGATCTACTGGACTCTGCATCGGCTGGACTGTACTTGGCCC

&gt;290.1

TGGCGGCCCGCCCGGGCAGGTACGTGCGGGGCTCCGTAGGAAGCCTCATCTC  
CCTAACTAGCTGCTTACACAAAG

&gt;291.1



Table 3

CTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTG  
GGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTT  
ACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATACCAGACACT  
TCTTAAATGATTTCCCTTGGGTCAAAATTTACCCCTTCTTGTTTTCTCTT  
GCTTTTCAGGTAATTAACCTCTTCTCTTTTAGTTTGAACATATGCAGTGCA  
AGATTCCTCTGTAGTCTTTCCAAGTGGAGGGTATAAAAAAAACACTTT  
ATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAAGTGGTTGGC  
TCACGGGTATAGGGTAGTAAGAAGAATTTACAGAAGACAGTCTAGGTT  
CGAAAAAGAAAGTTTTATTGAAAGAAAGAA

&gt;292.1

GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGA  
ATCCCACTCTGACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCG  
ACCCTGACTCTCTCCCGCTCTTTTCTCAGGTGCAAGGTTTCCTTAAGA  
TCACGCTGACGTGCGACCCACGGCTGCCGT

&gt;293.1

TGGCGGCCGCCGCCGGGCAGGACGCGGGGACATTGAGTGGGGATTAAGAGA  
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AGGCAATAGAATACTTTGCTTTTGGAGGAAAAGGAGGAATTCATTTTTA  
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TCATCTAAAGAAGATAAACTTGGCAAATGACATGCACGTTCTTCAAGGCA  
GAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAAT  
ACCTCTGAGAATAGAGATTGATTATTCAACCAGGATACCTAATCAAGAA  
CTCCAGAAATCAGGAGACGGAGACATTTTGTGAGTTTTGCAACATTGGAC  
CAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCCTGGGC  
ACAGAATTGCTGGGAAGCCTCT

&gt;294.1

TGGCGGCCGCCGCCGGGCAGGTACGCGGGGAGGCACATTCTTTTCTACGTGAA  
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CTTTGCATTTCTACCTCTTTCCCAACAGCAGTGCATGTCCACCATACCAC  
CTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCCTTACACTC  
ATTTTCCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGGTATA  
GCTGCCTTGCTTTTCATGAAAACACACTTTCTATTGTGATTTATCAGAGG  
CCTTTCCATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATAAG  
TGCATTTCAAAGTGAAAACGTTACAAACATGCTTA

&gt;295.1

GTGGCGGCCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAA  
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GAAACTATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATA  
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGAAAACCATTCCT  
TGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATC  
CAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGTAGAGGTTAG  
AATTTGGAATCTAACTCAGCGGAATTGTATCCGACT

&gt;296.1

GCGGCCGCCGCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAA  
AGAAAAAGTGGGCCACCATATCTGGAACTACAGTCTATGCTTTGAAGCG  
CAAAAGGGAATAAACATTTAAAGACTCCCCGGGGACCTGGAGGATGGAC  
TTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAATAATCAGAGACTGG  
TGCTCTTGAGAGAAAATAAGTTGGCAAATTCCTTAACCACAATGACT  
TCAAAATTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTCCAGAAT  
AAGTTTGGCTGTATCTCTACCATGGTCTCTCCAGTTCAGGAAGGCAACAG  
CAAATCTCTGCCAGTGTTAACAAAAATGCTGACTCCT

&gt;297.1

GTGGCGGCCGCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTT  
TTGGGCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAATTTGAGAAGTG  
TAAATACCAAGCCTTGAAAGGGACCATGGTGCGGCCTGTGAGACATAAGA



Table 3

AGCCAGTCCATTACTCACAGTTTGACCACTCTGACAGTGATGATGATTTT  
GTTTCTGCAACTG  
>298.1  
TGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACT  
AGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCATTGTTTGT  
CTGAAGAACTGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATCCCCT  
TACTCAGTCCCAGGGACTTCTCCAATAGCGACAACCTCTGCGGCCGCCGCC  
ATCTTC  
>299.1  
TGGCGGCCGAGGTACTTCTGTCTTCCAGTTTTCCACTTCAAACCTTCTATC  
TTCTCCAAATTGTTTCATCCTACCACTCCCAATTAATCTTTCCATTTTCG  
TCTGCGTTTAGTAAATGCGTTAACTAGGCTTTAAATGACGCAATTCTCCC  
TGCGTCATGGATTTAAGGTCTTTTAATCACCTTCGGTTTAATCTCTTTT  
AAAAGATCGTCTTCAAATTAATTTAATCACCTACAACCTTTAACTAAAC  
TTTAAGCTGTTTAAGTCACCTTCATTTTAATCTAAAAGCATTGCCCTTCT  
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ATACATTTTTTACTCCATGAAGAAGCTTCATCTCAACCTCCGTCATGTTT  
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>300.1  
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CGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAGCAAACCACAATG  
CAAGTATTTCTGACTCCCAAGATTGCCGTTTCCTAAAGAGCAATTCTTCT  
GCAGGCAACAGCAAACCTACCTTTCCTTGCTAACTGCTTTCAGTAAATC  
TTGATGGCCTTCGATTCTGGATTGAGACATCTTCTCACCTTCTTTTT  
CATTGTAGCAATGATCTCAACACGTGGACAAAATTGGCTTGCAGGAATAA  
T  
>301.1  
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TTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTGACTTTTTTGTGG  
AGAAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
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GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGAT  
TCTTCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATTTT  
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCTCGGC  
CGCTCTAGAACTAGGTGGATCCCCCGGGCTTCAGGAAT  
>304.1  
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TCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGTAGCGC  
GAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAG  
CTTCAGGAATCCCCGCGT  
>305.1  
ACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAAGTAAAGAGCAAA  
GGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGCTT  
TATCAAGCAGAATTCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTC  
ATGGCCACCTTAGCAGGAGTTGGGGAGGTATTTTAAACAAGGCACATTA  
TCATCTCCCCCACCACCAAGTGGAGCTATTGCTAATGAAAAAGATACAATG  
AGATGTTTATGAAATTATCTGTAGCTATTAAATGTCAAGTTTTTGAATTT  
ACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACA  
AAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGTACACACAA  
>306.1  
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CTCAGCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGG

Table 3

TCCTGGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGTCGGG  
TGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTT  
GCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGT  
TCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTT  
GCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACAC  
AGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATGGGGC  
TGCTGGATCGCATATTTGTGGGCATCTG

&gt;307.1

ATCACCATTATTCCCCTTTAGTCACCTCAGAGGCTTGTTAATGCTTTCTT  
TGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCAGTTCTTCTTTA  
CCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA  
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTCTACC  
CCCTCTTCGGTTAACTCCGCTTGTCTCTACAAAATGGCGCCGGAGGTC  
CCCCGCGT

&gt;309.1

TTTACAACCACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTTCCA  
AACCTATTGGG

&gt;309.2

GCAAAGCCCATTTTTTTCCATGCATCTAAATGATAGATACAGGCTATGAA  
ATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACAAAG  
CTTCAGGACAAATTGTACCTGCCCGGGCGGCCGCTCT

&gt;312.1

CGCGGTGGCGCTGCCGCGCCAGACTCTTGAGAAAGTATAGCAGCAAACA  
ATGCCTATTTTACAGGAAACAGAACACATACCCAGAAAAATGCCCTGGC  
AATCATCAAATCACAGTTTTCCAACATCAATAAAGTGTTTAACTCCTCAT  
TTGAAAGATGGTGTTCTCTGGATTGAATATTGAAGAATTAATAGAGAACT  
TCAGTCTGGAATGGAGTTATGGATCAGATTTGTGATGTGAGAATATCTG  
ACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAA  
AGCAGGCTACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGC  
TGATAGACTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG

&gt;313.1

TGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCATTAGAT  
TGAGTTATGTTGCTAGGAGATGTTTATTCATCAGCTGATCATTAAGCATA  
TGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAATAAATTAATTGT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATC  
TTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCT  
TGGTATTGTTTACCTAAAAGGAAGAAGTGAGGAAAACTGATATAAGTA  
GAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACCTGTATGGAGA  
CAAGTTGTCTGAACAATACACATTC

&gt;314.1

CGGTCGAGGTACGCGGGGGGTCTGGAGGTTCAAAGAATTGCAGGAGGGT  
TTAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGC  
GCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAATGTGC  
AGAGCTGTAGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGT  
GATTGACCCACACACTTACCTTTGTGTTCTTCCAGAAAATCCTCAGGGA  
GTGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACT  
GTTGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTG  
TTGCGGCATTGCCCTGACTGCGGAGTGCATC

&gt;315.1

GCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCATTAGATTGAGTTATGTT  
GCTAGGAGATGTTTATTGAGTCAGCTGAAACTTAAGCATATGGGGCTTAC  
TTGGCCCCCTATCAATTTGCGTCAAATAAATTAATTGTAGACCTGTCT  
TGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCTTTTAGTAACCCCTCTTGGTATTGTTT  
ACCTAAAAGGAAGAAGTGAGGAAAACTGATATAAGTAGAGAGTTTATT  
TGGGCCAAGCATGAGGGTTACAACCCAACCTGTATGGAGACAAGTTGTCCT

Table 3

GAACAATACACATTCTTATTAGCAACAGTTATAAGTAGGTTTTCAAAGAA  
AAAGAAGAGGCAGTTCCTAAG

>316.1

ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGA  
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCA  
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CCCAGTTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT  
TCCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTG  
AAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGA  
TACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGCCTTCTGATG

>317.1

CCCGGGCAGGTACTCTGCAGAAAGTATAGCAGCAAACAATGCCTATAGAC  
AACAGGAAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAAAT  
CACAGTTTTCCAACATCAATAAAGTGTTTAACTCCTCATTTGAAAGATGG  
TGTTCTCGGATTGAATATTGAAGAATTAATAGAGAACTTCAGTCTGGAA  
TGGTTTTTAAGGATCAGATTTGTGATGTGAGAATATCTGACATAATGGAT  
GTATATGAAATGAACTATCCACATTAGCTTCAAAGAAAGCAGGCTACA  
AGATCTTTTGGAACAACAACTCTAGCCCTTGACAGGCTGATAGACTGA  
TTGCTCAGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

>318.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGAT  
GAGAAATCTCCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAATGA  
AGGTAGTTGTACAGTGATCAGATGAGCAACGATTTCTCCAATGATGATG  
GTGTTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTAAAAGATC  
TCAAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAACTTTTCTCTGT  
TATGGTTTCATTCTGGGAGCGCTGCTGGTGCTCATTATTATGCATGTATAA  
AGTCATTCACTGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTT  
CATCTAGCCTTGTAGAATAAGTCCAGTGAACTGATATTCTGCAGAATCT  
TCACTGTTATATA

>319.1

ACTTTTTTTTTTTTTTTTTTTTTTCAATGTTTCAGTTTCCTTTAATGACC  
CCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATGGCAAGAGATG  
TTCATTGAAGATCTTGCCCTGATTGAAGGCTTTGCCACATGCTGGAAG  
GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTC  
AGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGAGTCATATCATACTGCT  
GGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGTTATAA  
ATGCCCATCTGCAGCAGCCGCTGTAAACCGGAGAGCTATTTCTGGCTG  
ATCAGAATAGAAGTGTTGCTTCCAATGCATGCG

>323.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAG  
TCTTCCACAAAATACTTTATTTCTGATCTATACAAATTTTCAGAAGGTT  
ATTTCTTTATCATTGCTAACTGATGACTTACCATGGGATGGGGTCCAG  
TCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTTTGGAAAGCT  
CTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCCACTCGCACC  
AGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACCAGGC  
CAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGT

>324.1

ACTTTTTTTTTTTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCAT  
GTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTAACAACTG  
ACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTC  
AAAATTTACCCCTTCTTGTTTTCTTGTCTTTTTCAGGTAATTAAGTCTTC  
TCTTTTATGTTTGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAA  
GGGGAAGGGTTTAAAAAAA

>325.1

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAAGCAGAAG  
ATGCTTCTGGTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTAT

Table 3

CCTGCAGAATCACCAGATTATTTTGTGGATTTTCCTGTTCCATTTTGTGC  
CTCCTGGACACCTCAGGTAAATTCTCCTCAGAGCTCCTTAATAAGCATTT  
ATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCATTCTGGGATGT  
ATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCG

&gt;326.1

TGAGCTCCCGTGGTGGCGGCCGCCGGGCAGGACTTTTTTTTTTTTTTTT  
TTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCC  
TAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATA  
CCAGACACTTCTTAAATGATTTCCCTTGGTTCAAATTTACCCCTTCTTG  
TTTTCTCTTGCTTTTCAAGGTAATTAACCTCTTCTCTTTTGTGTTGA  
TGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAA  
AAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAA  
GTGGTTGGCTCACGGGTCATTAGGGTAGTAAGAAGAA

&gt;327.1

GTGGCGGCCGAGGTACTTAAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCG  
TACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTC  
TACCCGGGAATCC

&gt;328.1

CCGCGTCCGCCTCTAGTGTCACAGACACTCCTGGGTTTGGAAATTTGTTG  
TTCTCTGTCTCTTTGATTTCTTGAAGACGACACCATGACAATTTCAAAG  
AAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTCTTAGCACATTCCTG  
TGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGGCCTTGGCACAT  
GTTCTGTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC  
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTT  
TTGGGTGAGAGTGGGACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC  
CTGTCCCTGGTGGGGCTGACAGCTTTCTTCTTACCCTGCCAGGCTGGCCA  
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTT

&gt;329.1

TACTTTACAGGATGGCATTAAATACAGATATTTCTGATTTCCCCCACTGC  
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AGCAACACTGAAGAGATCAGTAGTAAGAATTCATTTTCCCTCATCAGTG  
AAGACACCACAAATTGAACTCAGAACTATATTTCTAAGCCTGCATTTTC  
ACTGATGCATAATTTTCTTATTAATATTAAGAGACAGTTTTTCTATGGCA  
TCTCCAAAACCTGCATGACATCACTAGTCTTACTTTTGCTTAATTTTATGA  
GAAGGTATTCTTCATTTTAAATTGCTTTTGGGATTACTCCACATCTTTTG  
TTTAATTTCTTGACTAATCAGATTTTAAATAGAGTGAAGTTAAATTGTGG  
GTCATAAAAAGCATTGGATTGACATATGGTTTGCCAGCCTAAGGGTTTAC  
AGGCATTGTCCAAACATTTTTTGAGAACTATATTTATAAG

&gt;330.1

CCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACTCACTTTCAAAGCC  
AGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCT  
GACTTTTACGGAATTTGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCGCC  
CGGGCAGGTACTTTTTTTTTTTTTTTTTTGGCTTTCTTTGCTCCTTTC  
TTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTCATCCTCAGAATC  
TGAGAATTTCTTCATCACAAGCTATCCGCTTGCTGATGCTCGAATAGAAA  
TTCTCTTGCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACA  
GCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGCATGAGGTAAACAT  
GCGCAAATTTCAAACAAACGCTGTTTTATCTTTTCCATATATTTGGAGT  
GTTCTGGTTTGTCTATGTTTG

&gt;331.1

TGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAAGGAGGCT  
TTGTTGATTGTATAACACAGAATCAAAAGTTTCAGAAAGAAGTGCTTC  
AAAGAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCTGGGTTCC  
TGGTGAACCTAAACTTGTACAGCAGCAGGTGATCAAACAGCCAAATTT  
GGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGC

Table 3

AGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGT

>332.1

CCGCGGTGGCGGCCGCCGGGCGAGGTACCATCTGACTTGGCAATGTAATG  
ACACACACGTTAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGG  
TTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTATGGTGGCAACA  
CTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGGTACCT

>333.1

GTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGG  
GAAGGAGGCGGTGTTTTGCTGATCTGTTAAATCTTAGTGAAGTTTCCTT  
GATTTCCAGTGGCTGCTGTTGTTGAGTTTGGTTTGGAGCAAACTGAGG  
TAGTCCTAACATTTCTGGGACTGAATCCAGGC

>334.1

CCCCGCGGTGGCGGCCGAGTTTGATTTCTTGCAGTCCTGAGCGATGGAGC  
CCGGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGT  
TTTTCAAGAGAACCTTTTCGATATTCATTGCTCCATCGATTGGATCCAG  
TCCTTGTTCAGAAAATTGTTTCAAGGCACTTAAGGCTGCCTGAAAGCCTT  
GAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGTACCTCGGCCGCT  
CTAGAACTAG

>335.1

ACTTGACTGCTAACAACCTTTCAAATCTTCTACTTACTCCCTCTTCTTCA  
GCTTCACATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTG  
GTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAAC  
CTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCC  
TTTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTG  
CTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTC  
TTGGTGGTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTT  
GGGGGGGGGT

>336.1

ACTCATGAAGGAGATGGCCCCCTTTGGGAGCAACCAGAGAATCACTGAGAT  
CCCAATGGAAACAGGAGGTTTCCAGCCAGAGGAACCGACTTTTAAGGGATCA  
CAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC  
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGA  
CAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGAC  
AACAGAGCTGTATCCCTCTGTCAGCAAGAATGGATGTGCCCAGGCCCTGC  
ACAAAGGGCCCTCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCT  
CGCTGGCAACAAGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCT  
GGCTA

>337.1

GGTGGCGGCCGAGGTACGCGGGGATAATCAAGGTGTCACATCCCGGTGGCT  
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CCGCTGGTGGAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCC  
TTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCACTGGG  
AAAACCTGGAAGGGCCGGGACCAGCCCTGAAGATCATTAGCAGTGACTC  
CACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGCTGC  
AGAAAGTGGCCTCATGGCAGGCACATCAATTGAGGCCTGGATTGCCGCT  
TTCAATTACTGGCATCCAGAAATTGTGTATTCAGGGGGCGACGATGGCCT  
TCTGAGGGGCTGGGACACCAGGGTACC

>338.1

GGGGAGGCCAAAAAAAAGGGGGGGGGAAAAAGCCCCGGGGGGGGGGGGG  
GC

>339.1

TTTTTTTTTTTTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGT  
CTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAG  
AAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGAT  
ATTTAATTAAGGGATGATGAAT

>340.1

Table 3

GGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGCCTTCAGCT  
TGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGTTTCGTTGCTTC  
CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC  
CTGATGGGAGTGTATC

>341.1

AATACTGCCAGTTTTTCCAAGAAATTTTGTAAAGTTGAACATGGCCATCTA  
CTCTTGCCTTAAACCTTTTCTCACCACACCCACCTTCCCACATGCATGAT  
ATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGTG  
CGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGT  
GTATTTGCCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTAT  
ACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTT  
CGGTTTCTCACTGTTATCTTCTTTCTATAATTAATTTATTTAATCTA  
CAAATTGACATAGGGCTAAAAGCTTCAATATTTACAAAATATTAATTAA  
TGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAATGTTT  
GCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAGCA  
CATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTA

>342.1

GTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAA  
ACTTTCATTATAATACTGTTTTAAGAACTTACAGCATCTGCTTTACAAAT  
GGTGTTAGCTACATGTCGACACAGCATCTTTAGCCAGTTTTCTTTTGAA  
GTTTCATCTGATGTCATCTGGAACTGAGTAGCACATTTGCCTGCTCTGTT  
GGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTCAGA  
ATAACCATAAACATTAAAGTGTCACTCCTTGGAAAATGACAGATGTATGCA  
AGTTTAGTTCCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTT  
CTCCACTTTCCTTGTCTATTTTAAATAAGACAAAGAACATCACCATATT  
AAGTTGAAGT

>343.1

ACATCAGAGATGCTCACACATTCTTTGAGTAGTTTAAAACTCATTTTAA  
CCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAATAGCTCTAAGT  
AGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA  
CTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATC  
TCAAAAGGCATGAGGATAAAGCTTTCTGGAGATAATATAAGTGGTGGCA  
GGAAGATTTGGGAGCCAGATGATACTCTTTCTCTTAGAGAACTCTGT  
GGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGCTGGCTTCTT  
CTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAAATGTGCTTCA  
AATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAACT  
ACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGA  
ATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTTACTATATAGG  
CAATACTAGGGTAAATATTTTACATAGATTACCTTATTAGTAGCTCTTA  
GCTGCTAAAAA

>344.1

ACTTTTTTTTTTTTTTTTTTTTTTGTGGGAGTTAAATAAAATAAGCATG  
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CAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCA  
AAATTTACCCCTTCTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTTCT  
CTTTTAGTTTGAACATATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAG  
TGGAAGGGTATAAAAAAACAACCTTTATATTATGCCAGGTGAGGTGTCA  
GAACCTTGGCATCGGAAAGTGGTTGGCTCACGGGTCATAGGGTAGTAAGA  
AGAATTTACAGAAGACAGTATAGGTTGAAAA

>345.1

ACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAATGCAG  
AAGCTCCTCGAAGGGCCACCATCATCCTGCAAAACACCAAGCAGGGCAGT  
CTCTTATGCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGC  
TCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGTTTTG  
CACAGCAGAGAGCAAAGTCCGCTTGTATTCCACCCGATACGTGAGCTCA  
GTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCTGAGG

Table 3

CCTTGTA GACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTG  
CCCTCACCCTTGACACATGCGGACCCTCCCCAGG

>346.1

TTGGAGCTCCACGCGGTGGCGGCCGGGGTACAAGAGATAGAAAGACCAGT  
CCTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCA  
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GCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAA  
CCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTACAATATCACCTTTC  
TTATAGATTTCGCATATATGTGGCCAAAGGAACAACCTCCATGTTTTCTAAA  
AGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTTCCCTTTGTGTTG  
TCATTTTGGCGAATTACTGGAAGATG

>347.1

ATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAGACATACC  
CTTTCACGCCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCAC  
TCCAGCAACTGCTTTCAATCGGAGTTCATCCTCCGCCGCAGTATGCCCT  
AACGCAGCGTTATC

>348.1

ACTTGACTGCTACAACCTTTCAAATTCTTCTACTTACTCCCTCTTCTTCAG  
CTTCACATCTGGGAAAACTGATAGGGAAGCCTAGGTAGGCCTACCTTTGG  
TGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACC  
TCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCT  
TTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGGAAAGCTCCCTCTGC  
TCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCT  
TGGTGTGTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGG  
GTGGGGGGT

>349.1

CGCGGTGGCGGCCGCGGAAGGAGGAGAGGTGCTGTGCTGTGTATGAAGAGGC  
AGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTT  
GCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAG  
AGGTTGAAAAAACCATGACTGTATTCAGGAAGGCACATGAACTGAAGCT  
TCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTTCGTTGCTGTGTTATA  
ACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATTGTTT  
AGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTC  
AAAGAGCCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGA  
AACCCAGGTTTGTCTGCCATTGTGGATTTCTGGGCAGAGTGGAGT

>350.1

GTGGCGGCCGCCCCGGGCAGGTACCCGTGCTAAAGACTTTTAGTTCCGGCTC  
TCCAGTGTTTTTTTTTTCGTGATTTGGGCACAGAGTTTCCTGGTTCACG  
TGGATGTGAGGATCCTTTACTCCAGATCGCCAGCCAGTTTTTGTTTTTT  
TCCTGCGTTGCTGAGAGTCTGGGTTTATTCATCACACCAGGTGGATCTTA  
ATCCATATCCCTGAGGCCACTGCAATGAGGCAGAGGAGTGTGCTCCCTC  
ATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATCCATGT

>351.1

CGCGGTGGCGGCCGCCCCGTGCTGGTCCTTATTATTGCCCGTTGTTTCTGG  
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TGTGACTCCACGGGGGAGTCCATGGTGATGATGATGAGGAGGAGGATGAT  
GATGATGAGACACCTCTAACTTGAACAAGTTAAGACTTTATGAGAGA  
AGAAAAAAATCACCAACAAGAATTGTTTGAAGAAAAATCATAACTATCC  
TGTGTTGATTTTTTTTTTATAAACAATAAGAAAAAGTTGTTGGATTTTT  
TTTTAATGATTTCTTTTTTGGGGGAGGGAATTTGTTGCAGTTTTATGGT  
GGAAAAATGCAAAAACCAGAGCCAGGTGCATAATCTTGTAACTGTGGATA  
TCCCTGGAGCAGGACTGATGT

>352.1

TGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCG  
GGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCA  
GAGTCCAGGGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGC



Table 3

AAATAGAATGAGAACCATATTATGT

&gt;353.1

CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTC  
CTTTTCCTTACTTTGGGCATTAACCTGCTGTTGAGGTCTCACAGCCTGATG  
GTCATTATCCCTGAATGGCATAAATCAACAGGCTGTATGAGCATTGTGTG  
AGATTCTACATGAGGGAGAGCATTTCAAACCCATGACAGATGAGAGAAGT  
TAGTACACTCTCACTGAACTGGGGATGTTTGACTTAAATGATGGACAAT  
AAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCCATGA  
GCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGG  
CAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTG  
GTTCTCCCAGCTCACTTCCATAATGTCCTCCTAGGCTGCATTGGAATTGT  
GTGTTGTCTAGACCCATGGCCAACACTGTCATTGCCTGTGAGGGAG

&gt;354.1

ACTTTTTTTTTTTTTTTTTTTTGCCTTTAGAAGGTTAAAATGCCAATA  
TAAAGCTAAAACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTAC  
TGTTTTTACTATATAAATCTTTACGTGTTAATGGAAAGAAAATTAATTCA  
TTCTGTTACTCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTG  
ATGAGGGGGCAGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTT  
CACTAAACAGATATTTAACTAGATACTATTATACTACTAAGAATAGCAAG  
AATGTCTCTCAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCA  
CATCTCCATGAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAAC  
AAAGTCAAAATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCA  
TCAGCTCACCTTTCTTCTTATCAGAATCCACAACCTGCTT

&gt;355.1

TGAGCTCACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTCGCCAAAAT  
GACGAACACAAAGGGAAGGAGGAGAGGCACCCGATATATGTTCTCTAGGC  
CTTTTAGAAAACATGGAGTTGGTCCTTTGGCCACATATATGCGAATCTAT  
AAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAAAGATTCA  
GGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATT  
GCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAG  
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GGAAGTGGTCTTTCTATCTCTTGT

&gt;356.1

CGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAG  
ATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAA  
CTTTATGTAAGTGAACATTTGAAGGTTGTCTTTAATGGTGGGGGGTG  
TTTTTCTTTTAACTACAGTGCTTGCACAAGAGAGGGGAGGGACTCAG  
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GTCCATCATACTATTGCTTGGCAGGTGTCCTCCCCCATGTTTGATTCAA  
TTCCATGAGTGACCTACCTTTCCCCAGGAATGGGACTGAGAGGGTAGTCT  
TCCAGCAACTTAGTCTGCACAGGGCTCCCCGTTGAGGCTGCCTTTGGTGG  
TTGTGCTTTTGTAAAGTTTCTTCTCTGCACTTCGACTTACCTTTGAATCA  
GAAAGCAAGCCCAGCAGGTGAATG

&gt;357.1

ACCATCTGACTTGGCAATGTAAGACACACACGTTAGTGTGGGGCACAAAC  
GTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAATCCAGAGTCACTCG  
GGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTC  
CAGTAGAACATGGTACCACCATTTCTCCAAGTTCAAAAATTATCTTTGAT  
TCATTTTGTTCCTTCTCTAATATGTCACCAATTCTGCTGATACATT  
CTTTGTAATCTCTCCATCTATTTAATCTGTTATTCACCTGAGCTACACA  
AACATTCTCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATT  
AAGCCCTCCTTGTGGAGGCATTCACAGTCTGGTTTAAATACACAAACCAA  
CAATTATAATACACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCT  
GT

&gt;358.1



Table 3

ACTTTTCTAGCAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTT  
CAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGA  
TCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCA  
GGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTG  
TTCTCTGTCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCAC  
CAAGGGCA

&gt;359.1

GTGGCGGCCCGCCGGGCAGGTACTGGTGTGTGATCGGAACGTGTCGATC  
CCCTCTTCTCATCACTGCTGCTCCAAGTGGATTATTACTCCGGGAATGG  
TAGAGAATAAAGATTTGTAGGAAAGGTGCTGAAGTCCAAGGAAGGCATT  
TCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCACTGAACGACA  
CCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGCCCCTGAAGAAAGAC  
ACTG

&gt;360.1

TGCAAACTAAACACGCCCCGAGGAAATTTGGCCAGTTATCCAATTGATGA  
ACTAGTAGATAGAGCCAAACAATCTTTTCAAGAGGGTGTGTGAGATAT  
GGTTGACCAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCAT  
CTGCCCACACTCCTGTGGAACTGGTTGAAGCGATTCTGAGGGAGCAAT  
GCTGAGGCTTGGCATGACAAATCCGCCCTATATTTAGAGCATCTGGAGG  
AAATGGCAGAAATCCTTAATCACCCAGAGTCTACGCTTTTCTGCACATA  
CCAGTCCAGTCTGCCTCCGACAGCGT

&gt;361.1

TGAGCTCACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGA  
CATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAG  
CCATTCTCCCGGTACCAGCACAAACCGGGCCAGCCTCCTAACTGCTCA  
TTTACTGGGCGTCTACCCGGAATCC

&gt;362.1

TGAGCTCACCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCT  
ATAAATGTATGTGCTCCTGAATTTAGAGCTTAATAATGAATTATGGAAC  
TGATAATGATTGGATCAGGCAGACAACACCTGATCAGTCCTAATATCAGA  
AAAGAGACAAGTAGACATTATGTGCTTCTGAGGTGAGGCAGTAGTAAGG  
AAACAACATCACACATGTAGCAGTCTTGGGAAAAAATGTAACCTGTAT  
CTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATTGTGGGACATTCC  
ACAACTTGCCTGAACCTCTTAATAATGTCACTGTATGAAAGACACACC  
ACACACACACACTGCACATCATAACAAACACCACCCACCACCCACCAC  
TCAGACACACACAAAAGGGCAACTCTAATCAATTAAAGGAAACAAAAGAG  
AATGACAACATACATATAACGTATAATTCTTGATTGGATCCTGGATTAAA  
AATAAACAGCTATAAAGGATAT

&gt;363.1

CTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATT  
TGAATTTCTTTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCAT  
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CTGGGCGTCTACCCGGAATCC

&gt;364.1

CGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGGAAGCAGTGGTAACAACG  
CAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGG  
TAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTCAG  
CACAGCCCAGGGTGCCCGGGACTGAAAACCTCTTACCAGCCCCCTCCAC  
AGGATATAGAAGACTTAGATCACTACGAGATGAAAGCAGAGCCCATTAGT  
GGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAAAAAAAAGG  
TT

&gt;365.1

ACCAAGCACTGGGTAAGGCACTTTTGTGGAGCATTAGACAGTAACCCTCA  
AGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGT  
TCCCCAGAGTTTCTATTTGTTTTGTTTTCTTTTCTGTGACTTATTTCC  
TATTTTCTTCTCCATGTAATTTTCACTATGGCCCACTAATATAACA

Table 3

CCTGGAAATTACAAGGAAAAAAATTCTTCCTCTAATAACTTTCCAAATT  
TGTGGAATATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCAT  
TAAAAATTCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAAT  
CATGGAGATATCAGTAATTTTTAGTAACTGAATTTTGAGGACATTTCTCT  
GTTTAGCATGTATGCAAAGTATGTAATCCGGGGTTCCAAAG

>366.1

TGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATC  
AAGCTGACACTCAGTATTAACCATCACAAGGCGTGAGGACAGATAGCTGC  
ATCCGCAAAATAGAGAACCAAGAAATAGTCCCACACCAAAGTCAGGATCA  
AATGATTCCTGGACAAGCCAC

>366.2

TGAACCCCCCTCCGTCACCACACACAAACGTTAATTTGAGATGGATTGCA  
AACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACATAGAATATT  
TTGTAATGTTATGATAGGCAAAAGTCTCTT

>367.1

ACCGCGGTGGCGGCCGAGGTACATTGAGATTCAAGAGAAAAGTCACAGCA  
GGTCTGAGCTCCTCCAGCAGGCCTTATGTAATGCTAAGATTTTGGGGAA  
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AAGCTCTCAGTCCAGGATTACAGCACTGAGGGGCTATGGAAGCAGCAGTC  
TGAACCTCGGGTTCTGCAAGAGGACATCTTACTCAGGAAACAAAATGTAG  
ATCAGGCTTTACTAAATGGTTTAGAACTACTTAAACAACCCACAGGTGAT  
GAAGTTTTAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTAAGT  
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>368.1

CAATGTGCCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGG  
AAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTAC  
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ATCGCCACAAAC

>369.1

ACGCGGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAG  
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GTAGATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCA  
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAAT  
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CAAAGCCTTTGAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGA  
ACATCAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCAT  
TAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAA  
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AGCCAGCAGAAGTGTGAGAATTAAATC

>370.1

GTGGCGGCCGAGGTACTTAAAACCAAATAAAAAGTGACATTTGAATTTCT  
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TACCAGCAGAAACCAGGACAGCCTCCTAAGCTGCTCATTTACTGGGCATC  
TACCCGGGAATCC

>371.1

ACGATTATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGT  
GAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGG  
AGAGAAGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTT  
CGTTTTTCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAA  
CAAGTCTTTATTTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCT  
AGCTATATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTCA  
CAATCTTTTTCCACTTCACTTTGTCTGCA

>371.2

AGAAATCTACCTGGACAGAATAGCATCTTTTTTTTTTCCCCCTGACCCTTG  
GCATTTCTCTTCTCCAACCTTCTGCCTGATCCTAGGATGGAC

Table 3

&gt;372.1

ACGCGGGGATGTCTCTTGTCTCAGCTGTCTTTTCAGAAGACCTGGTGGGGCAA  
GTCCGTGGGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAACCTCTATCA  
TCGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAA  
GACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAA  
GTCAACTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGA  
AATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTT  
GGAGT

&gt;373.1

ACGCGGGGAGAAGGAATGGAAAGCCTGGAGAAAGAGGATGAAATGACGGA  
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CTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAA  
ACCACGAACCCCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCT  
CGTCTCATTTCTGGGGACACATTGAGGATTTCTCCAAAGCAGGTGAAGGT

&gt;374.1

GGGTGGCGGCGGAGGTACGCGCCAGTCACTAGCAGGTCCTTGTAATCTC  
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GGGCCGCGCCGGGCTGGTGGGCCAGACAAACCAGACATGGTGCTCCCCGC  
GTACTCCTTATACTTATTAACACAAAATTAATTGTAATAGCCTCAGG  
CAGGTCCTTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGGAGCTG  
ATGGCTCCGCCTGGGTTACTGCCCTGTAGACTTCCAGTGGGACAGGATA  
TGGAGGTGGAAGACAGTGACATGGATGATCCGGACC

&gt;375.1

CGGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATC  
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TCAGGAATGGAAGGCAAACAGTTCTGCTATTATTGATCACATATTTGCCA  
GTAAAGCAGTGGTGAATGCCGCAATTCAGCCTATCACCTAAGAGACCTT  
ATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAAT  
GGCATTGTGCAGCCCATTTCTTAGCATTCTTTTGCCCTCATATTGAAG  
ATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGAT  
GATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTAGAAGATG  
TAAAGAGGGAGTGTCAAAAATATGGACCAGGGGTATCTCTACTTGGTCC  
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&gt;376.1

CAGGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGA  
GGGGAGCACGCAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGT  
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TCCTGCCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAATACTAA  
AGCAACACTCCTGATTAACCTACTACTCAGTTTTGTGTGGCAAAACAG  
AGATCACATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAAGTTTA  
GCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGACAGAAT  
TTGTTATTCTTAAACCATTACTGTTTGTAGTGAG

&gt;377.1

TGAGCTCACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGTGCTGTGTA  
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TCACCTTTTGCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTTCCTT  
AGAGGGAAGAGGTTGGAAGAACCATGACTGTATTCAGGAAGGCACATGA  
ACTGAAGCTTCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTTCGTTGC  
TGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGC

&gt;378.1

CGCCCGGGCAGGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTA  
CCTCCTGTATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCGCTGT  
GTGTGCGCCCAAGTGGCCGCTTTGTAGGACACCACCTTACACTCACTCCC  
GCCTCTCTTTAGTGGCTCTTTAGAGAGAACTCTTCTCCCTTTGCAAAA  
ATGGGGCTTAGAATTGAAACAGGAGTATCGCCTTTGTGGGTTTCGATGCA

Table 3

ACAAACACGAGCTTTCTTGTTGACTTCTAACTTTTCAAATCAAAATCATT  
TGGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAAACCCATA  
TTTCTGAAATAATGCTGATTCTGAGATAAGAAAGTGGATTTGATCCCCA  
GTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAACACTTGTA  
TTTGTGAAAATGAATTTTAATTTTCTTTAAAAAAGAAATTTT

>379.1  
AGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAAGTGT  
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TCATTTTTTATTAGCCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGC  
TAAATAGGCAAGACCTTCTGAAAGTTAACATCTTAATGATTAAAAACAGT  
AAGTACGCACAACCGAAGCGTAGAGTCACACTTGCAACAAAAGGTTACAA  
TATTGTAATGGGCTCTGTCCGGTTCTGCTTGCCAGCTGGACCATCTATT  
TCATCCTCCTCCTCTGAGCTGTCATTTAATTGCTCATAACAGTAGAGATC  
AGTTGTCTCTGGTTGCAAATCTAACATATATTTATGCAATGTAGGGTGT  
CTCCATGCATGATTACAGCTGGGTTTCTCTACGTGTTCTTGATGATCTGC  
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TGCTTTTTGGCCAGAGGTCTTTGCTTT

>380.1  
GAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTTGTGACGTCGTTGAAAT  
TGCAACGCTCAAACCTTCCAACACTTGGTATACACTTGTAACCCAGCTTTG  
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GTCAGCAGTTGGGTTAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAAT  
G

>381.1  
CTCACCGCGGTGGCGGGCCGAGGTACACCATGTGAAGACTGGACTTAAACA  
GCTACACCACCAGATGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTG  
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>382.1  
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TTCCAATGACT

>383.1  
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CCTCTTAACCATCCTTGGGCT

>384.1  
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TTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGTG  
AGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTAT  
ATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGTAA  
AGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAATT  
CGTTCAAGAAAATTCTTCAGAGAGCATTAAAAAATGTGACAGTCAGCTTC  
AGAGAACTGAGGAGAATGC

>385.1  
GAGGTACTCCGTCTCAGAGGAGGGATGCAAATCTTCGTGAAGACACTCAC  
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TCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAGG  
TTGATCTTTGCCGAAAGCAGCTGGAAGATGGGCGCACCCCTGTCTGACTA  
CAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTG  
GGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA

>386.1  
TCGCCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACA  
GGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGG  
AAAAAGGGTGACAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGG

## Table 3

TGCAGTTAACTTCAGGAGTCCTCATTCTGGTGATAAAGATGGGCCGTGGC  
AGCCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACT  
GGGCCAGAGGCTGGGCCCTGGACATGTACTCTCAGAATGTTTGTCTATA  
TGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCAT  
TTTTCAGATATAAAGAGAATTACTTCAAATT

&gt;386.2

GAGTAATTCAGAAAAAAGCTCAAGAATTTAAGTTAAAAAGTGGTTTGGACT  
TGGAACAGGACTTTTATACCTCTTTTACTGTAACAAGTACCTCGGCCCG  
CTCTAGAACTAGTG

&gt;389.1

GATGCTGTTCCCATTTCTCCACTAAAACGCCTGCTTTTCTTAACTCCAC  
ACCGAACCAACCTGAAATATTTTGGCCCAGAATGCCAACAAGAATTGAAG  
AAAAGATGCTTTACAAAAATAACAATATAAAAGCAAATTATATTATCCCT  
TTTATCTCCATTCTTACATTAATAAAAAAAAAAAAA

&gt;391.1

CCGAGGTACGCGGGATGGGATTTCTGACCATTTGCCCTGCCTCTTGCAAA  
ATAGGTCTAATGGCAGGATGGTGTCTATAATTAAGGCTACCAAGACTGCC  
ATTGTTCCAGGCTGGGCAGTTCATAATGGGGGCAGACAATAGTGCAAAAA  
AATTTTACATTTTATCTTTAGAGTGTGAGGGTCAAATTGATTTCCATGGT  
TGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGTGGAGAGTTGCC  
ATAGTGGTTTGGAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCATT  
GGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACTTAG  
TCTGTGACACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATG  
GTTCCCTCCATCACTGAGGACCTGACTTAAAGTTTTTCTATCTCACTTAA  
AACAAACCTTTAACGCTCTCAACTTAGGCAATAATAAATTCCTTTTCATG  
AATCCCTTACCACCATGCACCACACAGACCACATGCCCG

&gt;392.1

AGCGCGGGGAGAGGGCCGGTTTGCAGTATTGGGCGCTCTTCCGCTTTCCTC  
GCTCACTTGACTCGCTGCGCTCGGGTCGTTCGGCCTGCCGGCCGAG

&gt;392.2

ATTCAGCTTCACTCAAAAGGGCGGTAATTACCGGTTTATTCCACCAGGAA  
TCAAGG

&gt;392.3

AACCCGTTAAAAAAGGCCCGCGTTGCTTGGCGGTTTTTTCCATAAGGGCT  
CC

&gt;393.1

ACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAGGGGAAATGGA  
GCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATAAGTCCCCTGC  
CTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCAGCTTGGGGAG  
CTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTC  
TATAAGTCTCTGTCCTGAGATCCTGGGGCTCCTCCTATTTCTAGAAGGGA  
TGAGGTGCCATCAAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAA  
GTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAGGCTGAGAAGG  
GAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT

&gt;394.1

TGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGA  
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TCCACATTCCCTGGCCCACTGGCTGAGCAACCCAGGTTCCGGCTCTGTAT  
AAGGACCCTCCCCTCCCAACCCCAACCCAGAGTGCAGTGCAAATCAACCA  
ACAATTTACTGGTGAATGGCAATCAAAGGAAACAGTTAAACACCAAACA  
ATTTCTTAAAGCCAAAAAATATTTTTCATGGAGTTGAACATTTTTCGAGT  
GTGTTTTTTTTCAAGTGTAAGAGCAGTGACATTTTGTTCAAACAGAAGCAG  
CATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGTTACAGGTATGCATCA  
TGGATTCTTCTCCCTCGTATTTAAAAAGA

&gt;395.1

ATCTTAATTTATTTAAAGCCATAGATTCAGTTTAGCTTTAACCTAGACAG

Table 3

AAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAATAAGGCAAC  
AGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACGTGTCTGGCT  
ATCAGCTTTGTTTTGACTACTAAGGCCAACCTTTTTATTCCTCTGGATG  
GTCTGCAGACCAAGTTCAGAATTTAGGCCAAAAGGATTTCCAAATGGATCC  
CTATACATTTTCAGAAGATTCAGGTTGAGGAAGAAGCCACAGAGGGCTTG  
TGATGAACCCAAAGGAATCTTTAAAGAAA

&gt;396.1

TGGCGGCGGAGTACCGCGGGAGCTTCTCCTTGCCAGTTTTTCCCAGCAGG  
ACCCTCTTCTTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCACGCTC  
AGTCTGAATGTCCGCCATCTTCC

&gt;397.1

ACCCTCTTCTTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCACGCTC  
AGTCTGAATGTCCGCCATGTGTCC

&gt;398.1

CTCACCGGGCGGCGGGCCGAGGTACAAAATTTAGAGGTTTCCCCTTTATCA  
ACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTCTTCTTAG  
GACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTATCTGAGCA  
TCTGGGCCTGCCCCTGAGTTGTCAAGAAATTTCTTATCTCTGAAGGAGTC  
CAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCTCTTGCTCCT  
TAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACACAGTTTA  
TGGGACTTTTCTGTGAACCTACCTGAGGGCAAGAACCATGTCCCACTCCCT  
GCTTGCTCCTCAAATATTTATAGGAAAGCAGTCCACAGTCTCACACAGA  
GGAACATGAAGTTTAAGTTCTAGCCCTATG

&gt;399.1

GCCGAGTACTCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAG  
ATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT  
TATAATTCTTCTTGATTCTGAGGCCACATTGTCAGCCCCACTTATCC  
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT  
AATAATGGTCAACTTTTGCCACTACAACCTCAGGGCCCACTTAATTCATG  
GATTCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC  
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CTCCCAAATCAGATACCCTTAACAGGAGAGGCCAGTTTGCCCAAAGGAG  
C

&gt;400.1

GTACAGACAGTGCTTGATGTTTCATAAAAAATACAATGCCCTGGTAATGTC  
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GTCGCTTCATAAACAACAACGCGGTTACCAAGATGGCCCAATCATCCAGT  
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TTCCAAGAACCCAGAGGAGGCAGAACTAGAAGACACACTCAATCAAGTGA  
TGGTTGTCTTCAAGTACCTGCCCGGGCGGTCGAGCGGCCGCGCCGGGCAGG  
TACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAGT  
GTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCCTGGGATTTGGCACC  
TATGCGCCTGCAGAGGTTCTTAAAAGTAAAGCTCTAGAGGCCGTCAAATT  
GGCAATAG

&gt;401.1

GCGGCCGGTTGACCTTGATGTACAGAGCAATTAGGAGAGTCAGAGGATG  
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AGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTGTTGTAAGTG  
TAACAACACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGAC  
AACTACAGCAGCTGTTTATGGACTCACTAGGATTTGTGTGTCCGTGGTGT  
GCAACTGCAAACAGTAACCTGCTATGGC

&gt;401.2

TATTGAAAACCTTACTTTTTTCAATGAGCATTTTGCATCAAGGGGTAA  
CAGGGACATTAGGCTTTTTT

&gt;402.1

ACACATATCCTCTGTGGGAAAAACTGCTCTCAGAGTGTGCACTCTCCCCA

Table 3

CAAGCCAGCGCTCAAACCTGGAAAAGTATCTCAATGTCCTGAATGTGGGA  
AAACCTTTAGCCGAAGTTCTTATCTTGTTCGGCATCAAAGAATCCACACA  
GGCGAGAAGCCTCACAAGTGCAAGTGAGTGCAGGGAAGGGCTTTAGTGAGCG  
CTCCAACCTCACTGCCACCTACGAACCTCACACAGGGGAGAGGCCCTATC  
AGTGTGGGCAATGTGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTC  
CACCAGAGGACCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGG  
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&gt;403.1

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ACTCTTTCATTACCTCCCTAAAGGAGGAAACACCCATTAATTTTCCCTT  
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&gt;404.1

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&gt;405.1

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GAAGGAAAAAAGAAAATCCCTGGGCCCTTTTCTTTTGTCTTTGCCAAA  
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GCAGCGATAGCAGCCGCAGAAGAGCCAGCGGGGTGCTTAGTGTGATGAC  
CAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCG  
ACTACCTGACCTCTGCAAATTCCTTCTCTACCTTGGTCATTCTCTCT  
ACTTGGGGAGATCGGATGTGGCACTTTGCGGTGTCT

&gt;406.1

CGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGT  
TATTTTACTGGTTCATGTATTTACTATATCATACTTTTTTTCATTAGAGT  
GTGCTCCTTCTACTTATGTAAAAAAGTTACCTCAGGGAGGTCCTTCC  
TGAGGTCTTCCAGCACACGGCATTGTTATCATAGAAAATGACAGCTCCAT  
GTGTGTTACTGGCCATTACCACCTTCCAGTGGGAAGGATGTGGAGGTGGA  
AAGCATACTGATGATTTTGTCCCGTGGAGGCCTAAGCTAATGTGTGTGT  
TTGTGTCTTAGC

&gt;407.1

GCGGCCGGTGTGCTCATCGTAGCCTCGGGTCCGGGGGATGCGTCTCCGCTT  
TAGCGCCAAGATAGAACTTCCTCAGACCACCGCCGCCGCCCGCGT

&gt;408.1

GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA  
GGCATCCAACCTCTTTACCAAACCTTAAAGTTTTTTCCGATTCAGTCGCC  
TCATCTTCAGGAAAACCTTCTCTTCTCATATAGTCATGCTTGTGTTA  
TGGTCCAGCCTACCGCCATGTTTTACAGAAGCCCGGGTCCCGGGGGCTC  
CCGCGTACCTGCCCGGGGGGGCGCTCGAGGCAGGTAAGTGAACACATT  
ACCTCCACACTCTCCCGGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT  
TCTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAAT  
TAGCATGAATGACAAGATAACAAGGGAAAGAGTTAACCTGTCACATAGT  
AGGTAACTTTTTTCAGGGTTT



Table 3

&gt;409.1

TTTTTTATTTTGCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCT  
TCATCCTTTATTCCTAAACATTTACTTATGACAAATGTAACGACTGACAG  
AAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAA  
TTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTCTT  
TTTAGTTTGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGG  
ACGGGTATTAATAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAA  
CCCTGGCTTCGGAAAGTGGTTGGCTCACCCCGCG

&gt;410.1

GGGCAGGTAAGTGTGCAGTAGTAACCATAATTCTAAATGAGGATTATGGAT  
TTTTCTGGAAGATTCTTTTTCTGTGGAACATGATGAGAAATGTTTAGG  
AGAGGGGACATAGCCATTTTGTATGAAGACCAATTC

&gt;410.2

CACACTCACACACGCATGCACACATGCACGCACAACCTTCACTCTATATTT  
ATTCT

&gt;411.1

CCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAACTG  
GCCCGGTGAGGGGGGACATAACCATTTCTGTGCCACCCCATCAGTACCC  
ACCTATTGTGAGCGAAGGCTCCTCCCTGCTTGAGTAATGGCCACAGATC  
TTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAGACT  
GGCTCGTGGTTCATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCACTA  
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC  
TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATTCTC  
CCAAAGGGAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT  
TCCTAACACGCAAGGATCTGAAAAGTGTCTCAGAAGACTACTAGAAGA  
GACGAAACGAAACCTGTGCCTCGAGCG

&gt;412.1

GCCGGCAGGTAAGTAGAGTTTTCAAGTATGTTCTAAGCACAGAAGTTTCTA  
AATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTG

&gt;412.2

GTGAATTTTGGCACAAAGGAGTGACAAACTTATAGTTAAAAGCTGAATAA  
CTTCAGTGTGGTATAAAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGA  
AAAGAATTCTAGTTTACCTCAAAATCCTTCTCTTTCCCAAATTAAGTGC  
CTGGCCAGCTGTCATAAATTACATATTCCTTTTGGTTTTTTTAA

&gt;413.1

GGTACCTAGTCTATATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAA  
TATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTG  
TCTAGAGATAATAAAAGGAAGGTGAATTTTTAAAAGACAAAAATAAGGC  
TAGAAAAGACTGAGTGGAGAAAGCCTACAGAATTTAGAAAAGCTAAAGAA  
ATTGGAAATTAGATTGAATATAGATAGAAATGGGAGGACAATGCAGCCAA  
TGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAAAGTG  
TCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAAACCCAGAGAGGGTGCT  
TGAGAATATACAAGAACCCTTGCAGGTGGTGACTGAACAAAACGCAGCCAG  
GGATTTTCATCAGAAGCATAATCCATTTCATGGCACCAGTCTGGCAGTGCTG  
GGGAGCTGGTAAGATACACAC

&gt;414.1

GGCGGCAGGTACGCGGGATCCAAGATGAAGTGCAGAGAAAATAAAGAATC  
CAAAGTCATAGTCATGAGGACAGAAT

&gt;415.1

AAAACCAAGACGAAGCCACTACAGCCCCCGCGTACCTGCCCGGGCGGCCA  
AAGGCCAACAAAGGCAGTGGG

&gt;416.1

TCACCGCGGTGGCGGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCAG  
CCAGGGTTCGGTGAAGGATCCCAAATGGCTGGGCGAAAACCTTGCTCTAA  
AACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAACCAAAAGG  
CCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCTCACCTCCAGGTTG



Table 3

GCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTTACTACAAGGC  
CAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCC  
GAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGGGTGTCTCTCTCAA  
GGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAACTTAA  
TTCCATTTGATCAGATGA

&gt;418.1

TGGCGGCGGAGGTACGCGGGGATTTTGAATGAATTCTCAACAAAATGTGCT  
AGCCACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATT  
TTATAGTGAGGGAGGTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGA  
TCCGTGTTAGATAGAATCCTGATGTGAAATGGGAGGACTCAGGAAGGAGG  
ATCGTCTTTACCTGAGGATTTCTAGCCAGAGGTCCCAGATGCCTGGGCTG  
AGAACCCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGGATAAGAAC  
AGAGGAGGCAGCAGCATTGCACAGCCCCAGGCACAGTGGCAGTTAGGATG  
GCTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAAATGTGATGTGCTT  
CATGTTTTCTCTGACTCATGGATCTGGTAGAGACCATAGACATGATATAG  
ACTAAGTTGCCATTTTTTCAAGAGGAAACCATGCTTATGACTTACCTT  
AAAGTTTTTTGTTCTGTTTTGAAAGAAACCATGTGCTTCATGAAACCTAC  
AGTTGA

&gt;419.1

CGCGGTGGCGGCGGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCA  
GTCATGGAAATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCAT  
GGCTGGGGAAGAAGCAGCCACCTTAGACCAGATGGACAAGCCAGATACTG  
CAGAGAAGTTTCTGGGCTTTT

&gt;419.2

GGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTC  
CTCTCCTCTCACCTCCTCTGAGCACAGCTTTCAACAAAAACTTTGCATAC  
CCCGCGTACCTGCCCGGGCGCGGCTCGAGGTAATCTCTGAGCATTGGC  
CTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCCCTGGCTCC  
CTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATATTCTTTGT  
AGGTCTCTTGGTATGTGTTTGCCTCAAAGGAGGCTTCCCAACTAAAAAT  
TCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCATCATGCAT  
GCGACCTTCAATCATTTTCAAGGGGGCA

&gt;420.1

CGAGGTACGCGGTGGTCCGCGCCATTTTGTCTCGGCAGCGGTGGCCGTAG  
CTCCATCGCATTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTTCATCAG  
GTAGATTGGTTTTTGT

&gt;421.1

GCCGCCTGCCCTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG  
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTTCAGCAACAATGAGAGAATT  
AAAACTTCTTCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCA  
CTCGCTACAAGCCAATGACACTTTCAACAAACAGCAGTGGCTTAACTGTA  
TTCGTCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGCAAGCTGGGGTG  
CTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGAGCAGAGAGCT  
ACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACGAGTGAGGTCAGCCTCGACTGTGAGCGCATGGAA  
CAGACAGACTCTTTCTGTGGAACAGCAGGCACGGTGAAAGTAACGTCTG  
ACAGAAGCATGTGCACCTCGGGAAGCAGGCCTGCATCTTACCTGTACC

&gt;422.1

ACGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTACAGGGCAATGATG  
GGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACA  
GTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTAATATAT  
TAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAA  
ACCCTATAAGGTCCTGGATAATTTTGTGTTGATTATTCATTGAAGAAACA  
TTTATTTTCCAATTGTGTGAAGTTTTTGAAGTTAATAAAAGAATCTGTC  
AACCATCAAAAAAAAAAAAAAAAAAAAAAAGT

Table 3

&gt;423.1

ATTAGACAGGGGGAAGTAAAATTATCTTTTTGCAGATGATATGACTTATA  
TGTA

&gt;424.1

TGGCGGCCGAGGTAAGTACTGCGGTAGCCGCTCCTCCCGCAGCTGTGCCGCCTC  
CTTGTCTCCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCT  
CGTCATCCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTA  
CGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGTGG  
GGACAGACTTGTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAG  
AGTGTGATATCGCAGCTTCAACAAGATCTGAAGCCTGAGTGTGGGT

&gt;425.1

GGTGGCGGCCGAGGTAAGTGGTTTAAGGATGGAAAAGAGCTAACAAG  
TGACAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGA  
TCATCAATGTAGCGCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAG  
AACCCTGTTGGCAAAGACAGCTGCACAGCTTCATTGCAGGTTTCAGGTTG  
GTTGATTTCTTGGGCTTTTCTTCATCATTATAATAATGTAGTTCCTGAT  
TTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAACATGAGTC  
CGACATCTTCTGAATCAGCAATTCAGAGGCAATACCATCTCAAGAAGCC  
ACCATTGAGACCACAGCCATTAGCTCATCCATGGTCATCAAGAAGTGGCA  
GAGGAGCCATCAAGGCGTCTATTCTCTTAAATGAGAGGCAGGACTGGCT  
AGGGTGATGCCTAAAGATGATTCCCAGGCTTGACATGCTGGTATTCTTAC  
ATATC

&gt;426.1

TGGCCGGCCGCCCGGGCAGGTAAGTGTGGGAAAGCCTTTTGCCAGAA  
ACCACACCTGACCAACCACATCAGCGAACACATACAGGAGAAAAACCCTATG  
AATGTAAGCAATGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAA  
CATCAGAGAACACACACAGGGGAGAAGCCCTATGAATGTAATGCATGTGG  
GAAATCCTTCTGCCACAGATCAGCCCTCACTGTGCATCAGAGAAGACACA  
CAGGGGAGAAACCTTTTGATGTAATGAATGTGGGAAACCTTCCGTCAG  
AAGTCGGCCCTAATTGTTACCAGAGAACTCATATAAGACAGAAACCCTA  
TGGATGTAATCAATGTGGAAATCATTCTGTGTGAAGTCAAACTCATTG  
CACATCATAGAACACACACAGGGGAGAAACCCTATGAATGTAATGGTTGT  
GGAAATCATTCTATGTTAAGTCAAACTAACT

&gt;427.1

TGGCGGCCGAGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTT  
ATTAGCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAG  
GTTGTGAATTTAGGCTCCAGTTATATTCAGTGGAGAGCATAATCCACAC  
GGGTTATTTATAAATACAGAGCCTCTGATTGGACGGTCTCCTGCCAAGAA  
CTAGTAATACCCTTGTTTTAAATCTTCACAAGGTAAACTTAAAAAGCC  
AACCAACAAATTGCTCTCCATTCTACTTTTAATTGGGCCAAACAGCATA  
TGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAATAAACTCTGTTTACA  
TTTGCCTCCTCCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTC  
GCCAGCCTCAGACAAGAAGAGTGAGCTGCTGGTACCTGCCCGGGC

&gt;428.1

GGCCAAATGCAGAAACGTCCCACATGCCACCAGGAGCAAGCTTCAAAAT  
GTTGAGCTTGCGGGGCA

&gt;429.1

TGGCGGCCGAGGTAAGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGC  
TTTTAGCAAGTTGTGAATATACTTGGGCTTTCTGTCTTCCCCAAAGCA  
ATTTGGGATTATTTTCTCCTTTTTTTTCTGCATTTTCATCATAAACTG  
TCATATTCATACACAGTAGCATCTTCTGCAAGGGCCTTCTGGATTTCAG  
TTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGCTTCCCTCTGAAGGCTT  
CACTCACAGAGGTCTCATCATCATCAGAATCATTCCCAAACACTGAT  
GGTTTTTGCAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAATAAG  
CCCATACT

&gt;430.1

Table 3

GGCGGCCGAGGTACAGACAAACTACAGACTTAGTCTGGTGGACTGGACT  
AATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTA  
TGAGCAAATAAAACAAATAAGACTCAAAGTCAAGTGACGGGTTCT  
TGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGAC  
CCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTT  
GCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCCAG  
AGAGTAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAAT  
TCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAA  
TCATCTGGAAACCGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTCG  
GGCCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCC  
CAGTATGGTGGTCTTGGAAGGACATTTTTGAAGATCAACTATATCTTCC  
TGTGCATTCCGATGGAATTTCACTTCATCAGATGT

&gt;431.1

GCGGCGAGACCAACAACAGCCCTCCAACAATGATGACCAGTGGA AAAAC  
AATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTG  
TGGCGTAAATGGTCCATCAGACTGGCAAAAATACACATCTGCCTTCCGGA  
CTGAGAATAATGATGCTGACTATCCCTGGCCTCGTCAATGCTGTGTTATG  
AACAATCTTCGAGCGGCCGCCGGGCAGGACGCGGGAGTTCAAGAAGCTG  
GTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATTGCAGAAGCT  
GGAAGTGGTCATATGAACACATTCAAGTAACACCTCAGGAAAAAAAAGC  
TATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAG  
CGTATTTTGTGTTGAGAAGAATGAGAATTTGGCTGCCAATTTTCTTCTA  
CAGCAGAACTTTGATGAAGATTGAAAGGGACTTTTTATATCTCACACTT  
CACACCAGTGCATTACACTAACTTGTTCACTGGATTGTCTGGGATGACTT  
GGGCTCATATCCACAATACTTG

&gt;432.1

GGCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCT  
TCCCGGGACTCTGCGTTGTTACCACTGCTTACTGCGTTCCAGCATTTCT  
TTTCTCTTCTCGTTTCTGTAGATTCCGGCTAATGGTTTCCCTGGCATT  
TGACTTCGTGATGTGTAACCTGATTCTTCTTCTGAAGGGGGAACGCATTC  
CAGAGCATTTGTTGGGCTCATGTAGGAATAGATCTTTGACTGCCCGGTA  
AATCCCGCGT

&gt;433.1

GCGGCCGCCCCGGGCAGGTACAAATCTACCTCCCCACCAAATGTCCTTAGA  
GGGCCAAAGATGGC

&gt;433.2

GCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACT  
CCCTTTATCTTTCCATAGCACCCCAAGCCTAAAACCAGACTGGCACAAA  
T

&gt;434.1

GCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTA  
GATATCCAATTTTCAAGATGTGCTCAACATTGGCCACTCCATCTGCCATT  
CTTAAGTCTCCTGGGAGTCTCCAGAAAGATTATGTTACTATTGTCTTT  
TAGTTGATTGAAATATTCTGTATTCTCAAGGCACCATCATGTTTGTTAA  
ATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCACCCCTATGAAAAA  
TATAAATCTTTGAACAGGCTTTAAAAATTCTATTTGTTGGATTTTCATA  
TTTTGGAGCTCTTAATTGATGTCACTATTATTTTCATCATATTTGTAAATA  
CATCTTTGATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCA  
TAGCTAAGAAGGGCTCGGAGAAGTAAATGATTTTTAGATACTATTTTAA  
ATGGTAAAACAAAAGCCGGGCGCAGGGGCTCACA

&gt;435.1

ACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGC  
TTAAAATTAACACAGGTTCCATTATGGGTCGACTTGATGGGAAAGTCA  
TCATCCTGA

&gt;436.1

GGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCCAGCC

Table 3

AAGCACTGTCAGGAATCCTGGGGAGGCAGCTACCAACTGACTGCAGATCT  
GGAATAATAAGTGAGGGGTAGATCTGCCCATAGAGCTCACTTTAGACCGG  
CCTATACTCCTACAAAGAATTGTGGTAGGATC

>437.1

GGCCGAGGTACCTTTTTAGAAAGAGAAAAGAATCTTGAATTGTATATATTT  
ATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGG  
TTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTGCCAC  
TGCTGAATCAAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTGGC  
AGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCCCCG

>438.1

AGGAGGAATTAGTGGATCCCCTAACAACAGTGAGAGAGCAATGCGAGCAG  
TTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCG  
TGTATCCTCTCGATCACATACAGAAGAGGATTGCACGGAGGAGCTCTTTG  
ACTTCTTGCATGCGAGGGACCATTGCGTGGCCCACAACTCTTTAACAAC  
TTGAAATAAATGTGTGGACTTAATTCACCCCAGTCTTCATCATTTGGGCA  
TCAGAATATTTCTTATGGTTT

>439.1

GTGGCGGCCGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGG  
GAGGAAAGGCTGTCTCTTTGATCCCATACCATGCAGGGGCAAATGGCTG

>440.1

GGCGGCCGAGGTACGCGGGATGTCTAAATATCTTGTA AAAAGTGTTAAAA  
TAAACAAACCCAGTCAATTA AAAATTTT GACTGTTATTGAGAAA ACTCC

>441.1

GCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTTTTAAAAATTCAATCT  
GGTTACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCCTTGAAT  
AAGGGCCAGGTGAAATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGA  
ATTCTTGGTGACCTCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGA  
AAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAAGTCTTCCTGTCTGCCC  
CCGCGTACTGTTCTG CAGGTTAAGGCAGGACTGGA ACTCCTCCACAGCT  
TGCACATAGTTTTTCAGATTCAACACTA ACTTCTCCGAGTTTAAGATGTGC  
CTGGGCAGCATAAAGCTGTGCTTCTTTGTTTCTTGCCTTTTAAAAATGA  
TCTTTGCTAAATCCAGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCC  
TCCTCCTCATTTTCTTGAAGAGACTTGTTTTCAAGGACTGAATCATTTGG  
CATTTCTTCAGTCTTATCATTTTCTTATCATCTCTTCCGAGCCTTCAG  
TTTCTTCACCCCTCTTTCATCTGGTCTTCTCTCTTGGGGCTCTTCATTA  
GCAGCTA

>442.1

GGCGGCCGCCCGGGCACGTACTTTTGCTGCTGAGGAATGGAATCAAAGA  
ACGTAGTCTCCTGGTAACCACTCAGATCTCTATTATTAGGCTAGATGTG  
GGGCGGGTGA CTCCCCAGCTTCTTGCTCTCGACCCTGCACTGTAAGTTG  
CCCTTCTATTAGCAGCCAAGGAAAAGGGAAACATGAGCTTATCCAGAACG  
GTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTATGAAATATGCCTC  
ACACTGTATAGCTCATTATAGGACGTGAGTTTGTGAAAAAAGTGGGCA  
AGACATGATTAATGAATCAGAATCCTGTTTCATTGGTGACTTGGATAAAG  
ACTTTTTAATTTAAAAAAAATATT CATGGAATAGGGT

>443.1

CCGCGGTTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAG  
GAATAGAGTGAGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATT  
CCTACTGCGTTTAACTATTTTATTGGTTTCTAACTACTACCACAGACAG  
GATACCTCACAGGTTCCATTATTACTCACAGCGTTGTGGTCCGGGTT CAT  
CGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCGCGCTCGGGAC  
CCCTCTTCTATAAGGGACATACACGAGATCACCGAAA ACTCCTCCTTTCT  
CCCATTGTTCTATGAGGTGGGTGGGGACTCCAAAACCCGTAGCTCCTGC  
CCTACTAGGCCACTCTACCCATT

>444.1

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCC

Table 3

GACATGTTTCGTAAGTGAGACAAGCCAGTGCA  
>444.2  
GTTATGGCTAAGCACATAGAAGGCCAAAAAAGGAGTTTTTCAAACCCAGC  
AAATCAAGTGCTTGGATTCTGAACTGCCAAAAGAAAAGTGCACCTCCCT  
CTTAAGTAAAACGAAATGAGTTTCTTAGGTAAATGTATTCATCAGCCCAG  
ATAAAAAAAAAACCAGTTATGTGAGCGTTAGTCACTGCTCATTTCAGGA  
AGATCAAACAAAATACCAGCCCAGCCAGACTCACATGTGTGTATATATAT  
ATAAAGCAAAGAGCCCCGCCACAAGCCAGCA  
>445.1  
ACTTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAA  
GTCACTAAAGATTCATTTTTGTTGAGTCCTTATGAGAAACAGCAGTATGA  
ATCTTGACGGTTTCTGCCCGTCTAATGGCAGAGCTCTCTGACTTGGGTG  
TATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGG  
GTTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTG  
AATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGG  
TGAGCTATCCCATAGTTCATTCTCAACGTCTTTACTGCACTGTTTAGGGT  
CAGATACACATATATATACTTTGGGTGAGCTCAGGAGTTTATAAGCT  
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>446.1  
GCGGCCGAGGTACGCGGGGAGACACAAGTTCCTGGGCTTAGATATTTAG  
A  
>446.2  
TTAGTTTGTTCATGCTGCTGATAAAGACATACCTGAAACTGGGAACAG  
AAAGAGGTCTAATTGGACTTACAGTTCACATGACTGGGGAGGCCTCAA  
ATCAGCGTGAGAGGTGAAAGGCACCTTTTACATTGGCAACAAGAGAAAA  
TGAG  
>447.1  
CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAG  
TCTAAGGGACTTGCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAA  
GAAAGCAGTG  
>447.2  
CGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCGTCT  
GATTCTAATAG  
>447.3  
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TCTGGTGTTCTCAAGGCAATTAATAATGATTGTTTAAACACCAACAA  
>448.1  
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CTGATGTCTTTCTAACAATCTTGCCTGCCAAAAGTCTCAAAACAT  
TCTCACGTTCTA  
>448.2  
AGTCCATGTTGCCCAAAGTGGTCTGGAACCAACACCCAGCTAATTTTT  
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CGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAATGC  
ATGATTTGAACACTGATCAAGAAAAATCTTGTGGGACCCATGATGCCCT  
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG  
TTGGGATCAGACAGTTAAAGTGTGGGATCCAGAACTCCTTGTAATGCTG  
GGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGG  
>449.1  
CGGCCGGGTACAAAAGCAGGGGGCCAGCCCCAGCTGTTGGCTACATGAG  
TATTTAGAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACAC  
ATGGGATTTTGGAAATCAGCTTCTGGAGGAATGCATGTCACAGGCGGGAC  
TTTTTCAGAGAGTGGTGCAGCGCCAGACATTTTGCACATAAGGCACCAA  
CAGCCCAGGACTGCCGAGACTCTGGCCGCCGAAGGAGCCTGCTTTGGTA  
CCTGCCCGGGCGGCCGTCGATCTCCTTGTTCAAGCAACTTCTTGCGGT

Table 3

AGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGCGT  
>450.1  
GGCGGCCGAGGTA CTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTC  
TGTGCTGGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGC  
TGGGATGTAGCCAGGACTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGA  
CCAGTCCTTGTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTC  
TCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACA  
CATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAG  
TAAACCTGAATCTTTGGAGT  
>451.1  
GAGCGGCCGCCCCGGCAGGACAAATGAGTTTAGAAATGTTGTATAAGGCTG  
ATCTGGACCCAACTAAAACAA  
>451.2  
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CGGGGGCAGGGGGAATACAAAAAATCCCTTGATTTTTAAATATAC  
TTGAATATCAAACCTCAGAAAGAGTTATTTTTGTGAAAGAGGCAAAATTGG  
TCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTTACTGAAATTATGGTCC  
AGTTTTAGGAGAAAAATTACAGAAAAGTCAGATTGTAGATTTTGAGAAG  
GAAACTCTGAGGTGGTGATTTTCTCCAAGGTCATGGTTATGAAGCTCAAT  
GAGGGCCTGAATTGCTTCTTCCACAGATCCCAATTGAATGAGCGCCATT  
TGCGATCTTTCTGAAAGAATTTAAAGCCTTCACTGAACATCCAGCTTCT  
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AAGA  
>452.1  
GCGGCCGCTAATGTTAGAAGTTAAGTTGGAACCTATATTGTAGAGGAACA  
AAAGCCAATCAGTGTCTTTTTGTCTTTTTTACATAAACTTTTTACTACA  
AAAATTAATATATGGATTTTGAATTTCCAGTCAAACCAAATTGTAAACT  
GTTTCATTTGGTTCTATATTATGTATACATAATTTATCTATTATATATT  
ACATTAATAATATATGCATATATAATGGATTTAATTTCTTTTGGCACCCC  
CATATCTAGAAGTCTCTTCATAAATTAATAAATAATCTAGGGCCAGCATT  
ATGTTTGCTAGACCTGGATTTGGCTCAATACTTAAAGTTAAAAGTTTCTG  
TCTTTTTTCTTGACTTGAAACTGCCTAGAGCGTCAGTCTCTCTGTTATT  
TTTTCTATTTCTTTTTCCCCATCAGTCTTTTAGCCACTTGAAGCCAA  
AATTCTTAGTTTCTGTCCTAGTCGATAAGAGTAAAAGGGGAAGGAGGAAA  
A  
>453.1  
TGCGGCCCTTATCCCGGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG  
>454.1  
CGCGGGGACCTTTCACGGGCGGGGGGAGCTGAGGCTCCTGCCGACATCTC  
TGATCCTTGCAACCCTGGCAGGAAGCTGGTTCGCGGGCACTATAACGGGAGG  
CCTCCACATATTCCAGAAAAGAAACCACTCTGCAGTGCCAGACTGGAAGA  
AGTAACGGTCACTCTGAAAACAGGGGGGAGAGCTGCCTCCCTTTGAACC  
TCTCCAGGACCAACTCTAACCAGGGGAGGGGAAGTTGGTTCGGTGCAAGC  
GGTGGCTTGAGAGACAGAATCATCTAATGGAAAAGATACACTAGAAGGCGC  
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>455.1  
ACGCGGGGAGGATCTCTGTCTTTTGTTCCTCACCTGTCTGCCTGTCTCC  
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CTCTGCATTTGAACAGCTGATCCCCACCCCTCAATACCGTTTAGAGCAG  
AAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAACTATTTTCGGCT  
TCATGGGCCACACAGCCTCATTGTAGCTTCTCAAATCTGCTGTTGTAGCA  
AGAAAAGAGCCATATACCCTGTGTAAACAAATGAATATGGCTGTGTGCCA  
ATAAACTATTACAAACATAAAGAGTGGGCTGGATATGACTCAGATACT  
GTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCCAAAC  
>456.1

Table 3

GCGGCCGAGGTACAACATGACATTTTTTAACCAATCCAATCTAAAAATGTG  
CCAGAATCCACCTGTGGCCCGAATCGTGTTTGGTTCCTCTTTCTACTCCA  
CTGCAGATGACCAAACCTGTCCCGCTGCCACTTTCCTCACTGATATTGGG  
AGGAGGGCAAGGCCAGCCGAAGTTCCACTAAAAATGCCCCAGGAGAATA  
GGCACCGGCTGGCTTGCCAAAGGTTTTGGGTTTTATTGCTTTCTGTTTTT  
TCTTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTGGACAGGTGTTA  
TTTAAACATTCTATTGTAAATGAATGTGTTGTTTGGTTCCTACTGCATTGT  
GGAGCATGCGGGGGAAGAGAACTGACCCAGGTAATGAA

&gt;458.1

ACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAG  
GATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAA  
AACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTG  
CTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGAC  
CCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCT  
TCAAACCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAACTTG  
AATGGAATAACGACATTCCAGAAGTTAATCATTTGAATTCTGAACACTGG  
AGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAAC  
CGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCA  
AGCTGCAGCCCATTACAGCACCCGA

&gt;459.1

TGGCGGCCGCCCCGGGCAGGTACGCGGGTAGTGAGCTGGTTAGTGAAGGCT  
TTGTAGCTGAGCAGTTTCTAAATAACACAGCCACTCAACTGACATACCAT  
GGATTATGTGAACCTCAACGGTTCAGGAAGGAGAACTTTGTGTGT  
CTTTCGGAATAATCATTTTAGCACCATGACCAAATACAAGGGTCAACTGT  
ATTTGTTGGTAACGGACCGAGGGGTTTCTTACTGAAGAGAAAGTTGTTGG  
GAAAGCTACACAACGTAGATGGTGATGGAAATTTCTGTGACTCAGAATT  
TCATCTTCGACCTCCTTCAGATCCTGAAACTGTATACAAAGGACAACAAG  
ATCAGATAGATCAGGATTATCTTATGGCATTATCTCTACAACAAGAACAG  
CAGAGCCAAGAGATCAATTGGGAACAAATCCCGGAAGGAATCAGTGATT  
GGAAGTAGCAAAGAACTCCAAGAGGAAGAGGACAGACCGGCTTCTAATA  
CTATCAGG

&gt;460.1

TGGCGGCCGAGGTACGAATGTGCAAAATTAAGCATGGTAAACTGATATT  
TACATAAATATCAAACCAACAATTAGTTTATACATTGTCAATGACCTTCT  
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TATTCAGAGGCTAAATTCCGACACTTTAAATGACACACATCATAGGCTT  
TACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTTTATGATCCC  
GCGT

&gt;460.2

TAGACTTCAGGGAAACAACACGTCCTGAAAGAAACATGATTCCCCTCAAG  
CCACAAAGGATTTTCTCATCAAGTGTTTTCACCTCTGCATTAGATTTGGA  
CACAAAGAGAGGAGAGCATTACTCAGGTAAAAATAGTTCTCTTAGTCTC  
TTCTCTAGTTACTAATTTTTAATTTAAAAATACAATTAAGTATCTAGC  
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&gt;461.1

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TCAACAAAGTAGAAGAGCTAAAGAAAAAATACGGGATATGAGAGACTGGA  
TTTGGTTACTGTGCCATGTGTTTATCCTAACTGAGACAATGCCTTGTTT  
TTTTCTAATACCGGGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACC  
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ACGATTACTGACTT



## Table 3

&gt;462.1

ACCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGAT  
GTGTGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTAC  
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T

&gt;463.1

CCGACCCTGCCGCTTACCCGGATACCTGTCCGCCTATTCTCCCTTCGGGA  
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&gt;463.2

AGGACACCGACTTATCCGGCCACCTGGGCAGGCAGCCAAGTGGGGTAAAC  
AAGGGATTAAGCAG

&gt;464.1

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TTTGAAGTGAGAATGATCTACAAATTCTCCTGACAAGGAGCAACCGGGCT  
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&gt;465.1

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&gt;466.1

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&gt;467.1

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&gt;468.1

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&gt;469.1

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CAACTTGGTAGTGAAACTGGGCAGGATGGAGTACCTTCAGGATTGGCCT  
GTTATCTTCTTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGTGGACA  
TTTCAACACCATCAAGTGATTTAGGTGACATGTTTAAAGTTAACTTGACT  
TCCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCGGTCACCAA  
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CATCTAAACCC

&gt;470.1

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Table 3

GACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCC  
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AACCTACTTGCCCCCGAACGT

>471.1

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GAGCAATTCTATCTCACCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA  
CTGGAGTTTCCTTCATTAGGATTCCATCCAGGATATCCAGAGGACAAGA  
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>472.1

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AG

>473.1

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>473.2

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>474.1

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CTTGAGCAAACCCACAGAAAAGAAGGACCGTGTACTTCTAAAATTGCACT  
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>475.1

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>476.1

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AGATAAGAGTGTTCTGTTCTCAAACTCAGAGGGCTCAGGGTCAGCGTGGA  
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>477.1

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Table 3

AAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAAAGGGGCATCTTAGG  
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>478.1  
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>479.1  
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>480.1  
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>481.1  
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GGTG  
>482.1  
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>483.1  
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>484.1  
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TG  
>485.1  
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TTATTTTTTGGTTTATATGCAAAAAATGTTCAATTGAATGCCTCCTATTG  
GCTGGCACTGCCTAGGCACCTTTCACAGGTATTTTCATCCTAATCCTCACA  
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Table 3

AGATTATTGCTTGATATACTTCTATTGCCCACACATTTTTGTTGGCAAGA  
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CCCCACAAGAATGATGG

>486.1

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GCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGCCATTGGGGAG  
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>487.1

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GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCC  
TATATTGGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCT  
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>488.1

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TTGCAAGAAAGTCCATATAATCTTATTCCTCCCAATATAATTTTATAC  
TTTGCACTAAACCAAAATAGCTTATGGAAAATTAGTATTAATAGCTAAA  
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>489.1

GGTGGCGGCGGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCA  
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>490.1

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GCGTCCTGCCCG

>492.1

CGCGGTGGCGGCGGAGGTACATGAGAGATAATGTTATGACAAGAATAGTT  
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>492.2

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>493.1

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## Table 3

CCTATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGA  
GGAAATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAG  
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AT

&gt;494.1

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TCAGGTACATATACATTATGTAATTAAGCGTGCATGTTTATGTATTA  
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&gt;495.1

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&gt;496.1

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&gt;497.1

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&gt;498.1

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&gt;499.1

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&gt;500.1

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&gt;501.1

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&gt;503.1

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GGATGTGG

&gt;504.1

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&gt;506.1

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Table 3

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AA  
>510.1  
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>514.1  
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>515.1  
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CAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGATTACTTTG  
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CAGTAAGAGGGACGGTTAATTCACAGCTTCAGCTCTTGGCGCCAGAGTC  
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>517.1  
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Table 3

>519.1  
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>520.1  
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>521.1  
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>522.1  
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>523.1  
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>529.1  
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Table 3

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>538.2  
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>541.1



Table 3

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CTCTCGGCCCCCGCGCTGGCC

&gt;542.1

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AT

&gt;543.1

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&gt;544.1

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&gt;545.1

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&gt;546.1

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&gt;547.1

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&gt;548.1

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Table 3

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GGGAAAGACT

&gt;549.1

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CAT

&gt;549.2

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&gt;550.1

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&gt;551.1

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&gt;552.1

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&gt;553.1

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&gt;554.1

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Table 3

CATTTTCCTGCTCTGTTTTCTCTGTGACATGAAGCAACAGAACTGAGAT  
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GCTAGAGAACTGACATTTTCAGACATGGTCATATATATGCTATTTGAATT  
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&gt;555.1

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&gt;556.1

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&gt;557.1

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&gt;557.2

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&gt;559.1

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&gt;560.1

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&gt;561.1

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Table 3

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GTGAATGCCAAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTGATGAAGGA  
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>572.1  
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Table 3

&gt;576.1

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&gt;577.1

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CCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT  
TCCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTG  
AAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGA  
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&gt;578.1

TTGGAGCTCCACGCGGTGGCCCCGCCGGCAGGTACCTCACAACGAGTTC  
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GAGCTGTTCTAGCTTTTTGCACAGGGAACCACTGGACAGAGGTATCATTA  
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TTTAAAATCTTTGCAATGTAGGGATAATTTTTCTGCAGAATCCTTGCCAA  
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CGCTCTAG

&gt;579.1

GGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTCGATTCATTTTAGGGG  
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TCTACTTTGGAGACAATTAAGTCATGGTACTTTTTTTTTTTTTTTTTT  
TTTTTTGGCTACATAGACATCTTCTCATGTATTGTTACTAGAACAAC  
TGTATAGGGTTTTATGGTTTGGGGAAAACATTTTAAAAAATGGACTTAT  
CTCTATTATACAGAGTTATAATATAAAAATGATTTAAAGGCTATATTTT  
CAGCATGTAGGTAGCTACACTGTAATCCTGTTGAAGAACTTTCCTATTT  
AAGCTTATAGGATGAAAATATATAATTAAGTCTTCTGATCATAGCTT

&gt;580.1

ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTG  
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CCAATTTGGAACAACATTGACCCAGTCAAAGCTTCTAATGGTTTCTTT  
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GGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTA  
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&gt;581.1

AGGGCCGGTTTTGCCGTTATTGGGGGCGCCTCTTTTCGCTTTTCTCGCTT  
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&gt;582.1

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AGCTGCTGTGCGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGAAT  
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&gt;583.1

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&gt;584.1

Table 3

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CCTGGCCAAGAAAGCATTTCACCTCCTGCGCTTCCTTCCTGTGTGCTT  
GTGGTTGGTTCTTTCTTCTCAGGCTTTCTTATTCTGATGCTGAGATAGTT  
CTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCTGTACAAG  
CAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCTCCAACCATAAGG  
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TGCAGCGGACAAATACTG

&gt;585.1

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&gt;587.1

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&gt;587.2

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&gt;588.1

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&gt;589.1

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&gt;591.1

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ACAG

&gt;592.1

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CAAAGGAGT

&gt;593.1

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Table 3

&gt;594.1

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GCCCCGGGCAGGTACTTT

&gt;594.2

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TGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAA  
GGGCAGTCTCAAAACCCCAGCTCAAAATACGACACTAACATGATGAACAT  
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&gt;595.1

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&gt;596.1

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&gt;597.1

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CAGTTGGTGGCCAAATACAAGTCATTGCCAGACAGTCCTTGAGGGCACAGA  
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&gt;598.1

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CCAACAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTG  
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&gt;599.1

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&gt;600.1

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Table 3

AGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGGCCCA  
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GCCCTGGAGATTC

>601.1

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>601.2

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>602.1

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>603.1

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>603.2

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>604.1

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GACCTAGAGGGTGAAAGTTGAAACTGACACATTTTCAAATTAAGATTATG  
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>605.1

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AATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAAATCCCCAGGAA  
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CTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGCAGCCTTAAGAGT  
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CACTAAATTTTTAACGAAGTGGT

>606.1

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Table 3

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>607.1

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GAGAAAGGATTTGGCTACAAAAACAGCAAATTCTATCGTGTAAATCAAGGA  
CTTTATGATCCAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGGT

>608.1

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GATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGCAAAGTGGAAAAA  
TGTGCGATGATTTCAAGCTTTTTAGATCAGCAAGCCATCCTGTTTGTGGA  
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>609.1

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TAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGATCAGCTGTATT  
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>610.1

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>612.1

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TCGACAGACCTGGATTAGAATCCACTCTCAAGCTTCTCATGCAGTGCGTA  
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TTGCCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA  
ACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGTAATGGTTTGG  
TTTCTCACTGTTATCTTCTTTCTCTATAATTAATTTATTTAATCTACAA  
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>613.1

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CCTTGATGGGCTTCACACAGTACCTGCC

>614.1

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CACATGTAAACCCAGCTAACAGAAAAATACATTCACAAGCGTTGTTGGTG



Table 3

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AATTAGGTT

>615.1

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AGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTTCAT  
CACCTGCCTTTGTACTATCAACTCTTATTAGATTAAGGA

>616.1

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GCAGTTCACTCTAGTTTCTTCTATTTTCATCATCCGCACTGCTCTTAGCAT  
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TGCATTTT

>617.1

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>617.2

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TTCAA

>618.1

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CAATTTATATATAGCTGAGTCCACCTCGGGACGAGGCCAGTGCCTGAAAC  
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>619.1

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>619.2

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>620.1

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CTTGAAGAAGAGATTGGTGTTGACTATGGTGAGATATACTATGGCCTTGA  
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GCAGAGGTATAAACTGATTGTGCACACCCCTGGTATTCCCCCAGCCATG  
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>621.1

Table 3

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>622.1

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AGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTATAGTATATAA  
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TCT

>623.1

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>624.1

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>625.1

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>626.1

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>627.1

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>628.1

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>629.1

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>630.1

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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>675.1  
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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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AGTTTGTTTCATGAGCATTTGCACAGTGGAGTTACTGTTTCATCATGGGGGT

>725.1

ACTAACTATTCTAAATATTAACACTGGTCAACTAAAATGCACAAATTC  
ATGAATTGGATTGCACTCAAACAAAAAATACCATAGGCAGTATCAT  
TTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGACTT  
TTCATATGTATTTTAACACTGTAGTAGGCTATCGGGTCTAGTTTAAGCTT  
CATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAAATC  
AACTATTAACCTCTTGCTGAAGACACAAATGAAATATTCCTATTTTAC  
AAAGCAAATTAGATTCCAAGATTTTCCAAGCCATACTCCTGCAGTTCAC  
TTGGGTTCAAACCTAAATCATAATAGTAATATACACATTTTACATTAT  
AACCATTACACATTATTTTCAACTCAATGCAAGT

>726.1

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTA  
AAGGTATATGTGAAAAACCTTAAAAAATCTATTTTATTACATGTTGAA  
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CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAAT

>726.2

GCAAAATCAAAAACATCTATAACATCTTGTTGGGGATACAAAGTTCTCCT  
GGCTGATTCTCATGCTACAGAAAG

>727.1

ACATTCTATTGTTATCTCTATTTTTTTGGATGAAAAAACAGCAGCACAAAG  
AAGTTCAGTAACCTGGCCTAAGGCCACACAGCTTGTCTTCTGAAGACTGG  
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CTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC  
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCCTTTGATATGTGGTCCATAAAAC  
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CACAAATG

>728.1



Table 3

TAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAATAAAGTAAGTTC  
AAACTAGAATCCTTGACACAACTGGTTTTATTCCCAATGCCTCTTAAAAA  
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>729.1

ACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTGCCATAAGGGAA  
GGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCCAGC  
AGCACCTTGGATTTTCCTGGCTTTATGCCTCCTGTTTCCCCTGGCTGAGT  
AACTGCAGGCATTAGGTTCTCTACACACGATATATTACAGGGAAATGGC  
AGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTTCCTCCTGAGCACTAA  
AATCCTAAACATGCAACTTAAAAAAAATTCTAAATGTGAACACCACCTT  
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>730.1

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AAATTGCAATCAAAAAACATCTATAACATCTTGTTGGGGATACAAAGTT  
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>731.1

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CTCAATTCATCCTATTGTTA

>732.1

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>733.1

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AACTATGATTTATGTAGCTCATAAGAGGGTGAATTTTGAATATTTACTC  
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TTTGCAGCATCTTGTAACCTGCCCGGGC

>734.1

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TATTTACTTAGCAGAGAGCTCTTGAGAAAGACCCAACCAATAAACCCCAA  
CCAAAGCAAATCCAGCTACTTCTCTAGCTGAGAGGGTGGAAATGACTCCAA  
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>734.2

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>735.1

Table 3

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CCTTTAACATTTTCATTACAGGATCTCAGCTCAGCCAAGTCCTCAGCCAT  
TTTGTAAATGAGGATCACTTTCTCCGGTTCCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCCTTTCTCTCTGAGCCTTCACCCGAGTCCCCATTGATGTCCGT  
ATTTTTACCAACAAGCTCTTCACCGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGTCTGCAGCA

&gt;736.1

ACTTGTCTGCTTCAATAAAATTTGTCTTTGATTTCACTGGTGGAAAGGGTG  
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CGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTATAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTTGGA  
ACTTCTACAAAAGTTGGAAAGAATGCAAATTTAATAAAAATTAGATGCT  
AAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAACTAT  
ATGAATAGGT

&gt;737.1

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CGATCCCAGTCCTCACCTCATTGTGTGGTAGCCAGCAGCAGAGAAGATA  
GGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGATGGCCGAAAT  
GCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAGGGTTGATTG  
GCTGACCTAATGTATTTCCAAAAAGGAAAATTTCAACAAGTTGCCGCATT  
ATTCATGAATGAAATTAGATATCATATCAAATTAAGAAAAAGAAAAAGC  
ACCAGAAGACCAGAACTACATAAAGCATCTCTTTACTACAAAAAAATCA  
GTTATTTTTCAAATATGAACTTGAAATAATTGTTTCTTTACTCTTTTG  
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&gt;738.1

ACTATCTGCTCTGAATTAATAATTTAGAACAATAATCACCTGCCGTGCCAC  
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ACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGAACA  
AAAGTGGCACTATTCAATTGTGTAGTTTTTTGTAATTATATTTTACCCT  
AAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAATTATTCATGGCTA  
AATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTGTCA  
GCATTCTTTTATATATATCTTTCAGCACATCTGCAATGATTTCTTTGGAA  
TAAATTTCTAAAGTTCGCTGGATCGAAAAGATTCAGGGATTTTATGTT  
CTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTCTGA  
ATAACAAATTTCTTTTTATGTTGCATTTAAATCTACC

&gt;739.1

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CCAAGAAAACCAGCATTTAATGAATTTATTCAAGAGTATCATCCAACATA  
CTCAAATATCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATT  
GATGGTTCACAGGTTGATTTGGCTGTTACATCTTTTATGTTGTTATCCT  
TCAGAGTAAAACTGGCCTGCCCTCTTTCTTTCTTTACAATATTGACTCC  
TTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCCATTCTGATTGTT  
TCCATGTGACCAGATTCCGGGTCACAAATTTCTGGCAAGAACCCTTCACAG  
ATGACCATGTATTGGTTATTAGGTAACAATAGATTACTCAAGTAGAGAAC  
TGGGAAATT

&gt;740.1

ACATTGTCTGCATTTGAGATTTTCTATTATCTTTCTGGTGTGATTTC  
TGTTTAATTATACTGTGATCTACAAGCA

&gt;741.1

ACTTCAGGTTAGAGATGACTTCAATATATGTCGCAGACCTCCCAAGGTGA

Table 3

GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
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AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT  
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAATTGGGT

&gt;742.1

ACAGGTTTCCCTTGCTCAACTTCTCATCCTGGGTGATGAGACTGTTACT  
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CTTTAAGAAAAAGGAAAATCAGAGTGCTTTAAGGAAAATCAGAGTGCT  
TTTCTTGATCTGCTATTTTCAAGTGCTTTAACTCAAAAAAATCAATA  
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GATAGAAAGCAAAAGCAAAATAATAGG

&gt;743.1

ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCCACACCCGGCTC  
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TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGC

&gt;744.1

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GACATTCATTTCTCTTCCTTGATAAGACTCCTTGATAAGACTCGGTGT  
TCATTTATCTTTTTAAATTAAACCACAACAAATATATGAGTTTTTAACCA  
TTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCTAGT  
TTTAAATAATAA

&gt;745.1

ACCTTTTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA  
CATAAT

&gt;745.2

CCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAACTCTCT  
CTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAGATAAAT  
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TATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAGTGGTGGTCTGG  
GGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATTTTTTAGTTTT  
CTG

&gt;746.1

ACTTTTTTTTTTTTTTTTTTTTTTAGTTAAAATGCTTTACCTCAATGGTTG  
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AAACCAAATACTTAACAGAAAATTGTCAGCTATTCTGACAAAAATAAAC  
ATTTTGAGAGACTTTATTTCTTTTGTCGGTTTCTGTGGTATCACTCATTG  
TCGTAAAGTAAGTAAAGCTTTTTATTTAGGTAAGAACTGATTTTATTT  
TTTAAATTATTTTATATTTATTAGCACAGAAGAATAATGAGAGCCACA  
TTTTAGTTCAACTT

&gt;747.1

ACTCTTTTGTGTTAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG  
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CAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT  
ATATATTCATTTCAAGCAGAGGAGTTCCCATTTTAAATAGAGGCATTG  
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TGTGGTTT

Table 3

&gt;748.1

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ACTTGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAGCAAAAGGGGAA  
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TCCTAATAGAAAAGCTAGAGAATTCCATTCTGAAAATTAAAGA

&gt;749.1

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TAATATTTAAGGGCCTGTAAACATTCCATTCTATTAAGCACAGCAGAA  
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&gt;750.1

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TACCACATTAACAGAGCCAAAATGAAATTTAAATTATGGTTATACTATT  
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&gt;751.1

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TACCACATTAACAGAGCCAAAATGAAATTTAAATTATGGTTATACTATT  
ATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAAATGGCTCCTT  
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GATACCTGACCC

&gt;752.1

ACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCATGGCAATCTTTTTACA  
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CCGAGTGGTATTCTTTTATAGAACTCAGCTACTAAAACCAGGGAGAGTAC  
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CTTCATACAAGG

&gt;753.1

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TTCCT

&gt;754.1

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CCAAT

&gt;755.1

ACATGTTGGAAGGGTTTTTAAATGTTTTGAACTGTGCACAGGCCAAAC  
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Table 3

TAGTAGGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGG  
GTGTTCTTTTCTCCCCACAATCCTTTCCCCTGCTGACAGTAGACTTAG  
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&gt;756.1

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CTGATCCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACAAAT  
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&gt;757.1

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&gt;758.1

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&gt;759.1

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&gt;760.1

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&gt;760.2

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GGA

&gt;761.1

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&gt;762.1

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&gt;763.1

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Table 3

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>764.1  
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>764.2  
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>764.3  
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>765.1  
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>766.1  
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AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT  
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CTCTCCGTCAGGAATTTTGTCCCTTGATC  
>767.1  
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TAATAGATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAAGAA  
ATAGATTAAGAGTAGGAAATATATAGATGAAGATGTACTGTATAGAAGTT  
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>768.1  
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>769.1  
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TTAGGAAGGCTAATGTGAAGTATCAAAAAGTATGAATTATGGAATGCCTT  
TAGAATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTA  
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA  
GATTCATAAATGTTCAATTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCACCAGGGATAAACCAGTAGTCTGAT  
>770.1  
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GCTCTTGTCATCCAGTCTCACTTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
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CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG  
AGGGCAAGGGCAGCTTGGATTTTGTGCCCTTACAGGGTCGGTATTATATA  
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Table 3

CATGTTAC

&gt;771.1

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GAATAAATAAAATTCCATTGAATTTGGAATATGTTGTCCATTCTTCCCTG  
TAACTAATGCTATCAAGATAAAGTTAGAAATACCACATTTTCAGAAACAGC  
TGGAAGTAGACAGGGTCTTCATAGGGCTAGCTTGGGAAACCTAAATAGCT  
ATTAATAAATGAA

&gt;772.1

ACCACCAATAATGATGCCACATTTGTATCCTAAAAAAGTGATTTCTT  
GTTCTTTGCCTACAAGAACAT

&gt;773.1

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&gt;774.1

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TTGTGTAATGTATGACAACAAGACAAAAAGCA

&gt;775.1

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GGTCTTGTATCGGTTTGAACCCCGACAGCGCGCCAACAGACAACACGAG  
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&gt;776.1

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&gt;777.1

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&gt;778.1

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&gt;779.1

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AATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCA  
CAACTTTTATGTGATAATGATATATAATTTATATACTGAAATTATTTT  
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&gt;780.1

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&gt;781.1



Table 3

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ATCCCA

&gt;782.1

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&gt;783.1

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&gt;784.1

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&gt;785.1

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TATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTTTAG  
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&gt;786.1

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TGCATCTCAGTGAAAAATAAATGGCAACAAAATTCTTATATCTGCTTCTG  
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&gt;787.1

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&gt;788.1

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&gt;789.1

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Table 3

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>789.2

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AA

>790.1

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>791.1

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>792.1

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AATTATG

>793.1

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>794.1

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>795.1

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GATTACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGA  
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AG

>796.1

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Table 3

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ATAA

&gt;797.1

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&gt;797.2

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&gt;798.1

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&gt;799.1

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&gt;800.1

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&gt;801.1

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&gt;802.1

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&gt;803.1

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Table 3

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>803.2  
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>804.1  
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>805.1  
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Table 3

&gt;808.2

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T

&gt;808.3

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TTTACAC

&gt;809.1

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&gt;810.1

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&gt;810.2

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&gt;811.1

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&gt;812.1

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&gt;813.1

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Table 3

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&gt;814.1

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&gt;815.1

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&gt;816.1

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ATA

&gt;817.1

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&gt;817.2

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&gt;818.1

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&gt;819.1

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ATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAGAAATC  
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AATGTGTGGTCATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGT  
TGTCCAGTTTAACATAGTCTTAAGTTTCTTAAACCCAAATAATTTATGA

Table 3

GTAGCTTATTACATCTGCAGAGCTACCTTATTATAATAGTACCTGCCCCGG  
GC

>820.1

ACTAGAATTAGTTCCAACTACTGCTGGTGATAAACTCACCATCTACCTTC  
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TCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATCTAC  
TCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTA  
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AAC

>821.1

ACTGGAACCAGACCTTACTTAAGCCCACCAAAGGCAAGGTTTGGGCCTG  
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GCCCTAAGTGGCTATTAGGTAATATATAAAGTAAGACCAGGCTAATTA  
GTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGC  
CTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATATT  
CAGGAGAAAGTAAAATCTAGATTTTTATCTAAATCTTTTAAATTTTA  
AACAGTCACCTGATTTT

>822.1

ACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGACCATAGTCCAGCCTC  
CCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTAACTTC  
CCTCACCACCTTTCCGATATGGACAGTTCTCATGCCAGAAGCAAAACCT  
TCTTTATTGTGCCTGTCTCCCTTGACTGTCATGCATATAATCAGCATCT  
TTCCCACTAAGTGAAGGGGCCAGACTCGAGCACAGGAGCACAGCACCCCT  
TAAACTCACGAGGGGCTGCATTACACCATCAGCAGGGGAGATTACACTTG  
TGTCATTTG

>823.1

ACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTTGAGAAAGGGGACTT  
GAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCCTACG  
TTTGTGTTCTGGGAAGAATCTTGGACTCAGGCGTGGGCAGCTGGATGCC  
TGGGTTCTTAGGCTTCTCCAGGCAATGTAGTTGCCTCTTCTCTCCCC  
GCGTACATAGTAAGTGTATGATAGATGTTTGATTTGTAAATTACAAATAT  
AAATTATCACCCCATTTCCATTTATTTCTTGATATATCAAATGTGTT

>824.1

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AGATATTAGATGATGACATCTAAGTATTAATAAGGAGATATTAAATGA  
TGACTCCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGT  
GGGAAAGGACAGTTCTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTT  
GCAGCTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTGCCA  
ACCCAGCAGACCATAG

>825.1

ACCTCTCATGGCTTTTTGTTCCAGCAGTGAGGGCATTGGTGAGATCAGT  
GGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGTTGG  
ACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGT  
TAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAG  
AGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCA  
CAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCTCAT  
GTGTATGATGTG

>826.1

ACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGGAAC  
TGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACCTCT  
GTTTGGTGTGTGATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGAC  
ATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATGATC  
TTCCCTAATTTTCATGAGCATCTTTTTCTGATATAAACCAGGGAGGGA  
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Table 3

&gt;827.1

ACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTTTTT  
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TTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTTTTT  
TAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGGGGA  
AGGGGAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGATGGA  
GGCACA

&gt;828.1

ACAAACAAGCTTTGTTAAACTAACCCTTGCCATCCTGGCTACTTTACCCA  
ATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGTTTG  
CTATTCTTTGTTCAATCTTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
TGTTTCTTTATGAAGTTTCCAGGCCATACAAAACCTTGTTAGCCTATC  
TTCTGTCAGTTTAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGG  
AGAGTTTTTCCACAGCAGTTCTGAATGGGATGAAGTGAAGTGAAGTGAAGT  
TCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGACAGCAGAAATACC  
GTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGTTTTATA  
TATTCATATCTGGGTGCTTTGATAATTATATATACATACTTTTTTGATAT  
TATTTACTTATTCTTTAC

&gt;829.1

ACTCACAAGCAATAACAGATTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
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ATACTTTCAGAATGTATTTTTACTACTGCAAGTTTTTGGTCTTTAAAATG  
TCAAGTAGCATCTCTCTCTTTCTCTCTGTCTCTTTCTGTTTCTCTCTCCA  
GTTTTTTTTTTTTTTTAAATTTCCATATGGGCTAAAGAATCCAAATATTT  
TAAAAATCTGGCTCTCTTTTCTCTCTCATAAAGTGAATTATTCCTCTTT  
TTTGTTTTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTA

Table 4

&gt;1

NNNNNNNNCCACCTCCTGCGTTTAAGCAATTCTCCGCCTCAGCCTCCCGAGTAGCT  
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CTCCCAAAGTGCTGGGATTACAGGCATAAGCCACTGCGCCCCGCCTCTAATAATAAATATTT  
AATGAGCTCTTCCATTAAAAACAGTGATAAGATTTATGAGGTTTACAAGAAAGAGTAAGGCA  
TGGTAGATGATGTGAATGAGCATATACCCTAATTCCTTGAGAAAACAAAATAGAAATACACTA  
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TTTATTCATTCATATTTATATCTTCTCACATTTCAAAAAGCCATTTAGTGGTTAGGTAAAGAG  
TATAAATAGTAAAAGCTCAGAGAGGTTGAAGAGATCATTATGGCTGGGGAAAATTCATAAAG  
AAGGTGAGAACTTAACAGAACCTCAGAGGCTGAGTGGGATCAGATAGGCTAAGAGGGTGGC  
AGAAGACACTCCACATGAAGAAAAACATGAACAAACAATTCAAGATGCTTTAGGACATAGG  
ATACAGGGTGATTGGGCTTGGATACTCCGATTAAAGAATGGTAGGGAAAAAACTAGAAAGAA  
ATACAGAGGCCTAATCGAAGTCTCAAATCCCAAATAAATATTTAAATTTTCATGTATAGAAAA  
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&gt;2

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
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GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
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CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTACTTATA  
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NNN

&gt;3

&gt;4

&gt;5

NNNNNNNNNNNNNNCGCGCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
GACCATAGCGGCCTCCAGCCAGGGGGGAGCGCCTACGAGAGGGCCTCACGTGATGGTCA  
CCACTAAGAGGAGGCACAACGCCTGTTCCCGCAGAAAGCAGGCGCCCCAAAACGCTTCAGA



Table 4

CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
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CCAAGTCTTCAGCTTTTCCATGTCCACACACAGACAATCCATGAAGTATGTTTCCTAAAGCCA  
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&gt;6

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GCAAAGTAGAAAGTTTTCTAAATAGCATGCTTGGATTTTTATTTGAATTGGATGAAGTTTTTG  
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TTTGTTCTTTCTTGTCTTTGAATAGAACAGTGGGGGACGGTAAGGTCTGTTTGCAAAGTACCT  
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&gt;7

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AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
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Table 4

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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
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CATAACATTTAGAATAATGATGTCAATTTTTTACAACTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

&gt;8

NCGCCTGTGGGAGGACGTCGGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
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CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAATGCTACCAAATGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAATGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
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GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTTACAACTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTTCTTTGAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;9

Table 4

&gt;10

TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCA  
AAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTTTGTATTTGGACTACATAAACTG.  
GCTTTAAAATTGAGAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAG  
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GTAAATTACGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGTGATCTGAGCTTTACT  
AAATCGGAAAAAGAAATCTCAATTATAGAACATTTAGTTTATTTATACCTTAATGCCCGGAGA  
GGTAATATTTTACTTTAAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAACACTTCTTT  
TGAATGTGTTCTGATCCTTGAAAAATGTGGGGCAGGGGGAAGGGGCCTAAGAGCTGAGGAC  
TGTGGGTCAGACCCTCATGCCATGGGCATAATGAACATATCAGAGAAGACTAAGACTATGGT  
GAGAGAGAAAGAAAAGAATTGAGTTCCTTTCCTTCCGAGACAAGTCAAATGATAGATTTTGC  
CTTTACAACATAAGTCATGTGAAGATTTATTAAGTCAAGACATCAAAGAAGGTCTGCCATATTAT  
AGTAAGAGAATTAGTGAAACAGTAGGAAAAAGGTGATCTGGGGTTCGAAAAGCTAGGGCAA  
NNNNNN

&gt;11

&gt;12

&gt;13

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTTCCCTGATCCGGAGCCAGTTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAAACGNNNNNNN

&gt;14

NNNGCAGCCTGGCAGTGCAGTGGGGCACGTCCTGCTGTGCGCGTCGCAGTCGCG  
CGGAGCCCCGCTTCCGACGTGCAGCCTGGCAGTGCAGTGCAGTGTCTGGCCTTTTGTCTT  
GATCCTTGGTTAAGGAAATGACCAACCAGTACGGTATTCTCTTCAAACAAGAGCAAGCCCAT  
GATGATGCCATTTGGTCAGTTGCTTGGGGGACAAACAAGAAGGAAAACTCTGAGACAGTGG  
TCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCT  
ACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACACCCT  
GCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCA  
AACAGATAAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGAT  
TCCCAGTATCTGGCCACAGGAACTCATGTGCGGAAAGTGAACATTTTTGGTGTGGAAAGTGG  
GAAAAAGGAATATTCTTTGGACACGAGAGGAAAATTCTTCTTAGTATTGCATATAGTCCTGA  
TGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTTGTATTTGCAACTG  
GAAAACCTTCTGCATACCCTGGAAGGCCATGCCATGCCATTGCTCCTTGACCTTTTCCCCG  
GACTCCCAGCTCCTTGTCACTGCTTCAGATGATGGCTACATCAAGATCTATGATGTACAACAT  
GCCAATTTGGCTGGCACGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTC  
CTGATGACACTCACTTGGTTTCCAGTCGTCTGACAAAAGTGTCACAGTTGGGGCGGTTGGAC  
CGGGGCTTGTGTTACACCCCCCTTTGGATACAGGCGGGGGGGTAAACAGGAGGTCAATGG  
TTGGGAAGCGAAATTGATGGGAAAAACCGTTTGAAGGGGGGGGAATCCTGGGAAAATGGAA  
TGAAATTGGGGTATAAATGTGGGGGTGTTTCAATATANN

&gt;15

NAGAGAATTTGCAACACGTGGTAGTGAAGTGTGAGGAGTTTGAGGGGTCTGAAGAC  
TGAAAGAGTCGAATGGTTGTTGGCAGGGTGTCTGGTGGATGGTTTCTGTAAGTTCAGATTCT  
TCATAAATCGTGTGAGCGTCGCCGACACCTCTGAGATAAAAGGGCCCCCTTTCGACTAGCCTC  
TGCTGAAAGGACCTAGAAGAATCCCTTAGGATGAAGCTGAGTCTTACCAAGGTAGTTAATGG  
CTGTGCGCTAGGAAAAATAAAAAACCTGGGCAAAACAGGGGACCACACCATGGATATTCCA  
GGCTGCCCTTCTGTATACCAAGACTGGCTCCGCCCCACACCTCACCCATCACACGCTGCATA  
ATATCCACGGGGTTCCTGCCATGGCTCAGCTTACGCTGTATCCCTAGCAGAACATCATGAA  
GTCTTGACAGAATATAAAGAAGGAGTGGAAGTATTATAGGCATGCCAGAATCACTCTTGATC  
TGCTCCCTGCACGATCCAGTCAGCCCCCTGCCCGGCTGGTTATGTAACAAACAAGTCTGTGT  
CTGTGTGGAGTGTGTCAGGACGAGTGGAATGACTGTTTCCAAGTTCATGGCAATTCAGAAG  
GCCCTTCAGCCAGACTGGTTCCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAAGGAAGCAA  
CTTCCATAAAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGC  
GGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGG  
AGATGTGATGGAAGAGAGGCTGAGGTCAGCACGAGAGACAGCCAAGCGCCTGTGGGTGG

### Table 4

**>16**

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**>19**

**>20**

**>21**

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**>23**

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Table 4

ACGTTGATAGGACCAGACCAGACCAGGCCCTTGTAGGCCATGGAAGGACTTTGGATTTTACA  
 CCAAGTGCAACAGGTAAGTCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGAC  
 AATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAG  
 GAAGAGAGCAGTTTGGAAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGCCAA  
 GGNN

>24

NNNNNNNNNNNNNCGCGCCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
 GACCATAGCGGCCTCCCAGCCAGGGGGGAGCGCCTACGAGAGGGCCTCACGTGATGGTCA  
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 CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
 CCAGAGCCGGACTGCATTGACGGAGACCATCACCCAGAGACACTAAGACCGGAGTTAAGG  
 TTCTAATGACTTCATTAAGTCTGGCCTTGAAAATGAGAGGTCTGGATGGCTTCTGATTTTCAG  
 CTGCAGTACATCCCCTTCAGAGCCTACCAAGGCCACCATGCCATGAAGAGCTGCCAGACAA  
 AGCATTGTGGGAGTGCCCTCTGTTAGAACAATTCTGATCCAGGCAGGGAGTAGTTTGCTGC  
 CCAAGTCTTCAGCTTTTCCATGTCCACACACAGACAATCCATGAAGTATGTTTCCTAAAGCCA  
 GGGCAAAACCTGAAGTCTGCTGGCTATTCTCCACTAACAGTTCGAAGCTTGTTTCATAACATCC  
 TCAGCCTCTGTAGCCTCAATAATTCCAGCACTGAACGCTGATGTACATACACAGCTAAGTGT  
 GTAGGCAAGGACCTCCTGAAACGTTCTGCTCTGGCTCCCGCTGTCATCTACGTGCGCAGAC  
 AGCTTCCGGAGCAATGCTGCTACGTGAACGCGGGACTGCATTTGGCTGCTGTGGCTCATGA  
 GGGACAGAACAAGTCCAACCTCCCAATATACAGCCCGTGTGTTGATTCAAGACTAGTGTCAAAG  
 CAGCAATTTTCCAGGGCATCCAACGACTTCATCAGAAGAAGGTTCTCTTGGCCAGATAT  
 ATCACTGAGTTTCTCTTACACAAGCGAGAGAGAAACATCCCTAAAGCAAGGCCCATGTGGA  
 TTTGCACGGCTTGAGACTCATCAGCACTTGGTTTCCAGGTAACCTGGCAGTCAGCATGTTT  
 AGGATTTCTCAACCTTCTCTTGAAGAGATAATGAAAACCTGGCACAAGGAGAGACAAAGC  
 CGTGGCGGCAGCAGAACGGGCAATGGCAGTGTGTTTCCACCAGAATAGGACTTATAA  
 TAAACCAGGAGAGAAAGTTGCCCTCTGGGTTGTAATGGCTATCCACAATGACCAAGAGTGT  
 ATCAAGTACCATGGAAACCCACTCTTTCATTGAAAGGAAATTAGGTTGAACCTCCAGGAGCC  
 CGTCAGAGTCTGAGGAGAGGCTGGCTTCATGTCTAGATACGACGACAGCAAGGCTGCTTAG  
 AGCTAACAGCGCATTGCCTTTCCTACCGGACTCTCCTTTCAGCTGCCTTGGTGATCTCAT  
 CAGTCAGCATGTCTTAACCCAGAGCCAGGCTGTGCTTTTTTGTACTGCACCTCCTCAGGT  
 TCTTCTTTTCCATGTTTTAACTGCAACTCCAGCTCTCCTAGTCTTCCCTGTAAATGGCATGAT  
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>25

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>26

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Table 4

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CTTATATACTTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
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AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAAGAAATTGAAGGAGAAATTCAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTCAGGAACAGCG  
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CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
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CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

&gt;27

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CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTGGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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### Table 4

- 22

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**>29**

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Table 4

AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAAGCTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
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AAATACAATCTGTTGGAACCCCTATGGAAGCTTTCATTTTACAGCAGCAAATGAAGATTATAA  
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CATAACATTTAGAATAATGATGTCAATTTTTACAACGAATTTATTCTAGTGCTTTACTTATA  
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NNN

&gt;36

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CTTCTTTCAATACATTTTTATTAGCACTATTCTGTGTCTGCTGCCCTGGGATACCAGAGTG  
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GATAAGCAGACTTTTATATATGAATAT

&gt;37

GTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAACATGGCGGCCCTTAGCAAGCTA  
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CTTCGTGCGACCCGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTCACAAGAAGA  
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&gt;38

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AAANNNNNNN

&gt;39

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AGGGCATCAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTCAGGAGTGGGGA  
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GCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCAGCACTTTGGG



Table 4

AGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTCGAGACCAGCCTGGCCTACATGGTG  
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>40

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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
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Table 4

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 AGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTC  
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 ATTCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
 TGAAGAGACTAATCATCTGGAAACCGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTC  
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&gt;41

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&gt;42

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 CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
 GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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 AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
 TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
 AAATACAATCTGTTGGAACCCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
 CTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
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 GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
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 CTGTGCCACTGTGTGTCAGAGAAGAAGAACAGTGTGGCAGTTGTAAATAATTGGTATTC  
 CTAACAATCCTGATGTATAATTATTTGTTACTTTTGTATTGAGAACTCTACAAATAAAAGTGCT  
 GGGACTAGATTAATTGCAACATTTTATTTATATGTGTAGAGCTTTATTGTTACTCCTTTTATG  
 TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA

Table 4

TTCTTCTTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTTAAAGTTCCTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

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NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
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GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
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CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

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NAGTATTGGTTCTGCTGGCAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGC  
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Table 4

CAAGATGCCATTTCTGCATCTCCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT  
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ACTTTTTTTTTTTTTTGAACGGAGTCTTGCTCTGTCCCCCAGGCTGGAGTGCAGTGGCATGA  
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NN

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NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTCTGGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
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ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC  
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CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
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CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
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Table 4

GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
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TGCAGTGTGAAGAGTCACTATGAGCAAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTG  
ACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTC  
AGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTC  
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CGCCTCCTCTTCACTCTCCTCTGATTAGATGAAACTGTTACCTTACCCTAAACACAGTATTTT  
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CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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AGACATTTGGGATGAACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
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CTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
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GAAAAAGCAGCCAAGGATTATAACCAGAAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTACG  
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CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN



Table 4

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GCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCTCCG  
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GTGGACTAATCATGGAGATTCTCGCAGGGGCCGGCTGCTATCTCAGATTTTCTAATCGGAGAA  
GGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCGGGGGCTGATGAGTGAGGTGGCAGCA  
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GATCTCATACTTTGTAGTTGTTCTATCTGCAGCACTGACTTCATAAGGGATTCTTCCAACCTA  
GAAATCTTTTCTCTATAGAAGGCTAACAATCTCTTCTGTGTTTTCTTGAAATTCTAAATCT  
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TCTGCGTCAGTATGCTTTGAAAGCAAACTGTACGACAAGGAGCTTTACAAATCAAGCATTCA  
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CAGGCGGGCGACCGCAGCGGCGAGGCCGGG

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NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
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CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
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NNN

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CACATCAGTGCCGAAGAATCGGTCATCTAATGTTAAACCACTTAAGGAATTTGAAAATACAA  
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GGTTTGAATAAGTCTCAGATCCTGGAATGAACCAAAAAAAGTCAGATACCAGCATGCTGTC

Table 4

TCCATTAAATGCTGCTCGTTGCCAAGATGAAAAGGCACACCTTCCAACCATGAAATCCTTTG  
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GCCAGGGCAACAGTGAGACTCAGTCTCAAAAATAAACAATAAAATAAATAAATGAATGT  
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NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
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GTGTATACTGGGATTGATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
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AAATACAATCTGTTGGAACCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
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AATCTATTCTGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
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GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTACGCATTATCCTCATATA  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTCAATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA

Table 4

CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTTAAAAGTTCCTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;57

&gt;58

NNNNNNNNNNNAGGCGGCCGCCCGGGCAGGTACGCGGGCTATTGTGATTCCCAGTG  
ACCCATAGAACAGGATTTCACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGT  
CAGGTCCAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAAAT  
ATTGCCACATTCTTGAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATT  
TTTTTTTTCAAAGAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAGGAAGAT  
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TCTCAGGAAACCCCTTCAACTTCGTATTATTCACTCCTGAGTAGTATGGGGTAGAAAATGAGT  
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TATTTCAAGTCCTGTTTACAGATGGGGATCACATCAGGCNN

&gt;59

NNNNNCCGAGGGACGCGGGAAAGATCAGTTGTTTTACCTTGGCATTCAAAGACTTTT  
CTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGGGGGGAA  
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GCCCAGCAATCTGTTTTAACCAAACTTCCACATAATTCTAATTAATTTATGCTTTGAGAACCGC  
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&gt;60

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CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
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GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
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Table 4

CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTTAAAGTTCTTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;61

CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGATTTTTGTAGTCTCTGTTCT  
GCCCTTTGGAACATCTCTTCGGTGTTCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAA  
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CTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAGATCAGGCTGAAGGAT  
GGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCAGAGAAATGCCA  
CAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCTGCTGTCACTGGAAG  
GGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCT  
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CCACAGCCTGTGTGCACTTAGAAGCGGATGCATTACAAATCTTCAGAAGGGAATGGAGC  
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&gt;62

&gt;63

&gt;64

&gt;65

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&gt;66

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&gt;67

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GATTTACAGGC

&gt;68

&gt;69

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GATGCGGGTTTCATTTACTGTAAATGATCGTTTTCTGACATCCATTCCAACAGGAATACCAGAG  
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Table 4

ATTTGACAGAGCTGTCCCTGGTGCGGAATTCCCTGACTGCTGCACCAGTAAACCTTCCAGG  
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CCCAACACAGTGTATCCTGCCAAGGACAGTGGCCAGCTCCAGTGACCAAACAGCCAGATA  
TTAAGAACCCCAAGCTCACTAAGGATCACCAAACCACAGGGAGTCCCTCAAGAAAAACAATT  
ACAATTACTGTGAAGTCTGTACCTCTGATACCATTATCTCTTGGAACTTGCTCTACCT  
ATGACTGCTTTGAGACTCAGCTGGCTTAACTGGGCCATAGCCCGGCATTTGGATCTATAAC  
AGAAACAATTGTAAACAGGGGAACGCAGTGAGTACTTGGTCACAGCCCTGGAGCCTGATTCA  
CCCTATAAAGTATGCATGGTTCCCATGGAAACCAGCAACCTCTACCTATTTGATGAAACTCCT  
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AGAGCAAGAGAAAGAACCCTTACAAAAACCCCAATTTACCTTTGGCTGCCATCATTGGTGGGG  
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&gt;70

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Table 4

GTTTTCACTTTAGTCTATTTGCAACGGTCTGAAGGCCTTTATGTTTGTATTCTTGGAAGCCAC  
CACACTTCGCTTAACTCTCAAGGCGCGAACAACCTCTCGCGACCCGN

>71

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGGATAAGAAATTACTGTG  
TCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTG  
ATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCACAGG  
GATTCACAGGC

>72

>73

>74

ACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAA  
AGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGGACAGAGCTTTTATTTTG  
CTCCAGGTTAAAAAGAAAAAAGCACATTACAACCTCTATGTCAGTGTCTGTCCCAGGTCCT  
AGAACTGGAATAGACCAACCAAGCCCAACCCTTCTTAAAGTAAGACTAGGTGCTTCCTGAT  
TATATATTCAACTGCCTGGAAGCATGCAAGTAAATTTCTTGATGGCATTCTAAGGTTCAA  
ACATATTCTTCTAAAAATGCATTTACAAAAATATTAAGATTGTGTTTTTTGGTTTGGACTTT  
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GAGGATTTCATTTTCCAGTCCCCCACC GCCTTTTCATTTTTGATGAACTGCACATGTTGTGG  
GAGCCACTGGTGGGCCCTCAGACACGAGCAATCCTTCTGGCCACTGCCAGTGTCTTAATAA  
GGGAATGAACAAGCGCCTATTGGTGAGGGAAGGGGAGTCAGGCGGTGGATGATATTTTTGC  
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>75

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ACGGAGTGTGCAATTTTACTGAATCTTGAATCATGCCCAAAGAATGAGCTGTGGTGCTGC  
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>76

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Table 4

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GTAAGCACTAAGTTAGC

>77

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GACTGGAAGCTCTGGCAGGTATGGCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCC  
ACCTGCCCAGCTACACAAATGTTTCCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCA  
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>78

>79

>80

>81

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CATAACTTTGTGTGACGAGACTGCACAAGACAAGCTCAGGCAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCTCTGTATGAGTGTGACCCAGCTGAAGAGAAGAAATGGAGAGCAG  
CAATTGGAGCTTCAGGACCGGCTTGCAGTGTGGCTCCAGGTTATACCACCACTGCCCAAAG  
CAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGAGAAAGCTGCACCCTACAGGCAACCAGC  
ACTTTAAAAACCACTCCAGGCAAAGTAATGGAANNNNNNNNNN

>82

>83

NNNNNNNCCGAGGTTCCTTGTTGCAGCTCTTTATTTCTTAGTCCCACTCCCCGAGG  
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ATCACTTAACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATATTTCTTTT  
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>84

>85

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TCTTGTGTGCAAGAACAAATCCCATTTTCAACAAGAACTAACCTGGCATGCCATTCTAT  
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NNNNN

>86

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CAGCAGCTTACAATGAAAAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATT  
CCCATTAACCACAATGACTTCAAAATTTAAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTC  
CAGAATAAGTTTGGCTGTATCTCTACCTGGTCTCTCCAGTTCAAGGAAGGCAACAGCAAATC  
TCTGCAAGTGTTGAGAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGGAAAGATGACC  
TCACCACATGCTGTTGATGCTGTGGTGAATGCAGCCAATGAAGATCTTCTGCATGGGGGA  
GGCCTGGCCCTGGCCCTGTTAAAGCTGGTGGATTGAAATCCAAGAAGAGAGCAAACAGT  
TTGTTGCCAGATATGGTAAAGTGTGAGTGGTGGATAGCTGTACGGGAGCAGGGAGGCT  
TCCCTGCAAACAGATCATCCATGCTGTTGGCCTCGGTGGATGGAATGGGATAAACAGGGA  
TGTACCTGGAAGCTGCAGAGGGGCCATTGTAGGTATCCGGAATTATGTCATCTATAAAAATA

## Table 4

CTCACATTAAGACAGTAGCAATTCCAGCCTTGAGCTCTGGGATTTTTTCAGTTCCTCTGAATT  
TGTGTACAAAGACTATTGTAGAGACN

>87

>88

>89

ACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAGATCTGA  
AGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCTTAAGTCG  
ATCCAACATCTGCAGTTGCTGTTTTCCCATTTCTCCAGTTCACGTGTTAAATTCTCTACTTGT  
GATGCCAAATGTGCTTTCTCCTTGTCTTTTCTCTCCATGCACCGTTTCACTTCTCTAACTCA  
GATGCCATTGCGCTGAAGTTTCAGCTGCACTCTCAAATCTGACATTTGCTTCTCCAGGTCCTG  
TTTTTCCCGCTCAACCCCTCTCCTAAATCTCCAGTCTCCCTTGTTCATCCTGATAGTTTGA  
CTGTTGCTTGGAAATCTGAGATACTTGATGCTGTAAACCCTTTCGATCACCTTCTGCTTTCGT  
AAGTTGTGT

>90

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACA  
GGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTTAAAAGTG  
CCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCT  
GATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCCTTTCATCTGACTTTGCTGACATTTCCA  
GCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAA  
GCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCACAAAATTTTCATTTATTCA  
GTAAGAATTTGCATGACTTGTAGCAGTAACAGTTTCACATTTTCATCAACCAGTGTCAAAGAG  
AGGTATTCAGTTATTGGTAGCCTATAAACTGTGTTAGACTGATTATTAATGCTACATTTCTG  
CTCCTGAATGAATATTGAAAAGCATCTAGTGACACCAAGGCCTTTATAGTTAGAAAAGGCATC  
TTTCATCTNN

>91

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACA  
GGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
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GCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAA  
GCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCACAAAATTTTCATTTATTCA  
GTAAGAATTTGCATGACTTGTAGCAGTAACAGTTTCACATTTTCATCAACCAGTGTCAAAGAG  
AGGTATTCAGTTATTGGTAGCCTATAAACTGTGTTAGACTGATTATTAATGCTACATTTCTG  
CTCCTGAATGAATATTGAAAAGCATCTAGTGACACCAAGGCCTTTATAGTTAGAAAAGGCATC  
TTTCATCTNN

>92

>93

>94

ACGCGGGGAAGCGCGCGGAAGAAAAACCAGCAAGAAGGCGGCGGGGGAAGATGG  
CGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCTAGTCGAGTAACTATTCGGGTCAT  
GGCGTCAAACCTCAACTAAGTCTTTCCTGGCAGATGCCGGCTATGGCGAACAGGAACCTGGAT  
GCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAAGATCTGGCAAACCTTGGTGAACAGTG  
TGAAGCAGTTGTTGCTTTCCAGACTTTTTCAGAAGTATCCATTCCCTATTCTTATCAATTCT  
GCATTCCTAAAGTTAGCTGATGTTTTCAGAGTTGGAAATAATTTCTGAGGCTATGTGTTCTT  
AAAGTTACCCAACAAAGTGAGAAACATTTGGAGAAGATTCTAAATGTGGATGAATTTGTGAAG  
AGAATTTTTCTGTGATTCATAGTAATGATCCTGTGGCAAGAGCCATCACCTCCGGATGTTG  
GGAAGTCTGGCATCAATAATTCTGAGAGGAAGAATGCTCATCATAGTATTCGTCAGAGTTT  
AGATTCACATGATAATGTAGAAGTTGAAGCTGCTGTTTTGCTGCTGCAAACTTCTCTGCACA  
GTCAAAGGATTTTGCTGTAGGAATCTGTAAACAAATCAGTGAAATGATTCAAGGTTTAGCGAC  
ACCAAGTAGACTTGAAGCTAAAATTTACACCATTTCTACAGCACATGCACCATGATGCAATCTT  
GGCTTCCAGTGCTCGTCAGCTTTTACAAACAGCTGGTCACATCCTATCCGTTCCACCAAAATGG  
TGATTGTGCTTTGCACACTTTCACTCTGCTTGCAGCGTCATCTTTGGTTGATACACCTAAGC  
AGATTCAGCTTCTGTTGCAGTATTTGAAGAATGATCCCAGGAAGGCAGTAAAGAGACTTGCT  
ATTCAGATCTGAAATTAATTGCTAATAAAACACCACATACTTGGAGTAGGGAGAATATTCAG



Table 4

GCACCTTTGTGAGTGTGCCCTCCAGACTCCTTATGACAGCTTAAACTAGGGATGTTGTCTGT  
CCTTTCCACACTATCAGGGACCATCGCCATCAAACATTACTTCAGTATAGTTCCAGGAAATGT  
GAGTTCTTCTCCCAGATCTTCTGATTTAGTCAAATTAGCCCAAGAGTGCTGTTACCATAATAA  
CAGGGGCATTGCAGCTCATGGAGTTAGAGTCCTAACTAATAAAGTGTCTTGTCAAGAAAA  
GGATCTTTTGGCACTGGAACAAGATGCTGTCTTTGGCCTGGAATCCCTACTGGTACTTTGTA  
GTCAAGATGATAGTCCAGGTGCTCAGGCCACTTTAAAGATTGCTCTAACTGTATGGTGAAG  
TTGGCCAAGGGCAGGCCCATCTTAGCCAGTCAGTAGTTGAGACCTTGTGACTCAATTGCA  
CAGTGCTCAAGACGCTGCCCGGATTTTGTAGTGCCATTGCCTGGCAGCCATTGCCATGCAA  
CTGCCGGTGCTGGGTGATGGGATGCTTGGTGACCTCATGGAGCTGTACAAGGTGATTGGAC  
GATCAGCCACAGACAAGCAACAAGAACTTCTGGTGAGTTTGGCTACTGTGATTTTGTGCA  
AGTCAGAAGGCATTGTCTGTGGAAAGTAAGGCAGTAATTAAGCAGCAGCTTGAAAGTGTCTC  
CAATGGATGGACTGTATACCGTATTGCCAGACAGGCTTCCAGAATGGGTAATCATGACATGG  
CCAAAGAGCTTTATCAGAGTTTGTGACTCAGGTTGCCTCAGAACATTTCTACTTCTGGCTAA  
ATAGTTTGAAGGAGTTTTCACATGCAGAACAGTGTCTCACTGGGTTGCAAGAGGAAAATTAT  
AGTTCAGCACTTTCTTGCAATTGCTGAATCTTTAAATTTCTATCAGAAAGGGATTGCTTCCTTAA  
CAGCAGCTAGTACCACTGAATCCTTTAAGCTTTTCAAGTGTGAATTTGTAAACTCAGGATTG  
ACCTTTTACAAGCCTTCTCTCAACTTATCTGTACTTGTAAAGCCTGAAGACAAGCCCACCAC  
CTGCAATTGCCACAACAATTGCCATGACCTTAGGAAATGACCTCCAGAGGTGTGGTTCGCATC  
TCCAATCAGATGAAACAGTCCATGGAAGAATTTGGAAGCCTTGCTTCTCGATATGGAGATCTT  
TACCAGGCATCTTTTGTGCTGACTCAGCAACTTTGAGGAATGTTGAACTACAGCAGCAGAG  
CTGTTTACTGATATCTCATGCAATAGAAGCCCTGATTTTGGATCCAGAATCAGCAAGTTTCCA  
GGAATATGGATCTACTGGAACAGCCCATGCTGATAGTGAATATGAAAGAAGAATGATGTCTG  
TATATAATCATGTCTTGGAGGAGGTAGAATCACTCAATCGGAAATATACCCCTGTTTCTTATA  
TGCACACAGCATGCCTCTGCAATGCCATCATTGCTTGTGAAAGTTCCCTTTCTTTCCAGA  
GATATTTTTTCCAGAACTACAGTCTACCAGCATCAAGCTTGCTCTGTCAACCATCGCCCCGG  
AATCCTGCAGAGCCCATTGCTGTCCAGAATAACCAGCAGCTGGCGCTAAAGGTAGAGGGAG  
TGGTTCAGCACGGATCTAAACCAGGACTCTTCCGCAAAATTCAGTCTGTCTGTCTGAATGTTT  
CTTCCACACTGCAGAGTAAATCTGGACAAGACTACAAGATACCCATTGACAACATGACCAAT  
GAGATGGAGCAAAGGGTTGAACCTCATAATGATTACTTCACTCAATTTCTGTTGAACCTT  
GCTATCCTTGGAACACACAACATTACAGTGGAATCTTCTGTGAAAGATGCCAATGGTATAGTA  
TGGAAGACTGGTCCCAGAACTACCATATTTGTAAATCCCTGGAAGACCCTTATTCCCAGCA  
AATTCGCTTACAACAGCAGCAAGCCCAGCAGCCATTACAGCAGCAGCAGCAACGCAATGCC  
TACACACGGTTTTAAACCATGGAATGAATGCACTGCAGACTCTCAAGAGATCAATCAAATTGC  
CAGAAACAGTTTGGTTTTTTCATATGGAATAAGTATTAAGTTACAGTGTAGTTTCAATTTATTCAT  
TGATTTTTGTAAATGTAATATTCTGGAAAAATTTTGTCTTAAAAATTTTGTCTGACAGCTGG  
GCGTGGTTGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGCTCACGA  
GGAGATCAAGACCATCCTGGCTAACACAGTGAACCCCGTCTCCACTAAAAAATACAAAAA  
ATTAGCCAAGCATGGTGGCAGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGA  
GAATGGTGTGAACCTGGGAGGCGGAGCTTGCAAGTGAAGCCGAGACTGTGCTCCAGCCTGGG  
CGACAGAGCGAGACTCCGTCTCAAAAAAATAAATAAATACATTTTGTCTGAAAAATAACTGGA  
AAAAAAAAAAAAA

&gt;95

ACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAGTTTTTGTGGG  
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GTAGGGGGATGAGCAGCTCCACACCCTGCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGA  
AATGTCTAACTCCATCGAAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTT  
TCATTATAACTGTGTGTAACCTTTTGCATATTTTCAAGAAAGAAACCAGTAAGGTGGGTTT  
AGTTGTGGGCTCATCCTGACTTAGAAAATTTTAAATAATTTAGCCCATGAAATGTTGATAATA  
TAAGGCATGCATGAATAATAATTTTGTCTTCTT

&gt;96

&gt;97

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTATGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTTCATGTTCACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

Table 4

&gt;98

NNCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAG  
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TTTATTCTCTGGCATTCTCCTATATACTAGCCACTTTTAAACAATATTTGTGGCTCTTTCT  
TCTGCTTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTTCTTACTCC  
TGGCCTTTCCTTGGGAGAGTTCATAATTACCTACTCCATCTAGATATTTGTGATGTCCAAAC  
ACATCTCCACGTTAGGCTTCTATTTGATGCATCAGACCCACACTTTCAACTGTCCACTAGATA  
GCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAAACAGGGAAAAAAT  
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ACAGAAAAAAGTGAAAACTCTAAAGCAGTTAGATTTGAGAATTATATACCATTTTAAACAAAGAA  
CAATACATTGTGGAGACATGACAAAGGAAAAAGGGTTTGGGCTGGAAGGGGGATGGGAAA  
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&gt;99

&gt;100

AGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCAGT  
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CAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTCTCAATCT  
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GAGTTGGGAGGCGGCCTGCTGGGGTTCCTGGGTGGCAGGATTTACACCTGCTCCTCCTG  
CTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCCGCTGCTGACTGGTGGGCAGGATGCC  
TCCCGGGAACAAGGAATGGATGATGAGGCTCGTGAAGATTTGTGGCAATTCCTCTGAGCTTA  
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CTGTTGTACCTGCCCGGGCGGCCGCCAC

&gt;101

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;102

ACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTCTATAAGATTAAAAAA  
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ATAN

&gt;103

NNNGAGAAGCCATGTGGGACTCCTGCCCTGGAGAGAGCCCAGAGTGGAGGGGAGG  
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CCTGACTTCAAACCTCAGCTTACCCAAAGCAAATGTCCGGCGGCCGAGGTACTCCTTTCTTGT  
TTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAATTCTTAAGTCTTACC  
TCATCCAACCTTGTTTTGACTCCTGCAGTGAGCACAGCTTGCCCTCACCCTCCCCTCTCTAT  
GCCCTCACCTTTCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAG

Table 4

CAAGGGTTATTTTTCTAAAAGACATTGGTCCCATCGCTCCTCTGACTAAAGGTCCTACTATG  
GCACATTTGCCCTTGGCACTCAAGGACCTTGAATCAGGCTGAGAACCTCATGTTCTCAAAC  
TCAAGACCANN

&gt;104

&gt;105

ACTTTCTAGGTATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCC  
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TTGCTCTGGATTCAAGTTTTCTTCTTAGTTTCAAATTTTAAAGGGAAACCAAAATGTTTCAT  
GGGAC

&gt;106

GTCCGGTAGTGGGCAGCGATCAGGGCTGGGGCTCTTTCCTGAGTTGTGTCAGGTG  
AGAGATTGTGAGAACTTGGCTTGCAGGGTTTGGGCATCAGCTGCCCATGAGGGGGCCGTTT  
ATTGTCTCAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCATTTGTATCCACACAAGTTA  
ATTATTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTCTATGTGCA  
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCAGTCTTAATTTATGGGCACAATTTA  
GTTTCTTCCACACAAATTTAGGCCTTAACCTTTTTATTTTTCTACAGTGGGGGTTTGGAGTA  
ATATTCATACGGCATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGNN

&gt;107

ATAATTGCAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGAT  
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TTCTAGTAGTGCTATGTCATTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGTCTTGGAAAT  
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&gt;108

NNGGATTCTACATCAGGTGTCTGTGCCTCGCTGCTGAAGGATAAACCAGAGTGCAA  
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AGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAGTTAACTGTAAACCA  
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&gt;109

CCACGCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTG  
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AGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGTGTTTTATAGGTTTAAAGACCAGGT  
CTGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTG  
TTTGTTTTAAATAAAGAGATTCAAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCCCCAGT  
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&gt;110

GTGCTGCCTGCACTGTGACTAAGACTTCTGGACTATCATCATGTTTAGGAGTTGAT  
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AAACATTTTTCTGGAAGAAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTTGATTGTT  
TCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAATACATCTGG  
AGACACTATATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGC  
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&gt;111

CGCGTCAGTCAGTCTGACGGTCAGTGGATCGGTGGGTTTATCTCAAGGCCTGAGTA  
GCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCAGCCATGGTAGGTCCAGATCC  
CGTAGAAGGGAGCGGGGTCCCATAGGTTACGGCCGATTCTGGAGCTTCTGGACTGAGGG  
CCGCGGTAAGCAGTGGTCTGATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGT  
GTGGATCTGCATCCTACAGAGCCATGGATGTTGGCAAGTCTTACAATGGCAGTGTGTGTGT



Table 4

TTGGAATCATGAAACACAGACACTGGTGAAGACATTTGAAGTATGTGATCTTCCTGTTTCGAG  
CTGCAAAGTTTGTGCAAGGAAGAATTGGGTTGTGACAGGAGCGGATGACATGCAGATTAG  
AGTGTTCATTACAATACTCTGGAGAGAGTTTCATATGTTTGAAGCACACTCAGACTACATTG  
CTGTATTGCTGTTTCATCCAACCCAGCCTTTTCATTCTAACTAGCAGTGATGACATGCTTATTAA  
GCTCTGGGACTGGGATAAAAAATGGTCTTGCTCACAAGTGTTTGAAGGACACACCCATTATG  
NNNNNNN

&gt;112

NNNNCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCCATGAGGTTGGTCTGGGT  
GAAGAACGCATCGATGGCGGCACGGGCTGTTCCGGCACGTAGACCTTGCCGTCACGCAG  
ACGCTCCAGCAATTCGCGCGATGGCAGGTCGATCAGCAGCAGCTCATCGGCTTCCTGCAAG  
ACCCAGTCAGGCAAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTG  
AGGCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATT  
CCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGGGCGTTGCTGTGGGCCAGTT  
CGTCCACCAGCACCAGGTTGGGCTTGCGGCGGAGCANNNN

&gt;113

NNNCGCGGCCAGCCGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATG  
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TGGTGGGAAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCC  
CAGCTGCTTCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGCAA  
GTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTC  
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AGCTAGGACTGTGGNNNNN

&gt;114

NNATAGTGATGAAGCTGGATAGTTAAAACAGAACTTGAAAAGCAAGATGTGGAAC  
GGGATATAGGATTTTCAGAGTTTAAAAGAAATGTGACATTTCTTAGTGGATTGCTTCCGATG  
TACGCGGGAAGCAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAGA  
CGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTC  
CTCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGAAACACCTGATTA  
AATAACAGCATGGAGCCAATCTTGACAAAGAAATTGGCTGCATCCAATAGAATCCCAGGGCC  
GGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGGCGGCCGAGGTGGGAGGATCACT  
TGAGCTTTGGTCTCAGGGCTTTGAGACCAGCCTGGACAGCATAGTGAGACCTCGTCTCNN  
NNNNNNNNN

&gt;115

NN  
TCTTCTCTGTTTGTGTTTTTTTTTTTAAATTTTACTCGTTTCTTTATTAATATAGAAAAGGAGCCC  
AGGGCAGCTGGACCACTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGGATG  
GTTTTACAAAAGTGAAGGAGCAGGCAGGAGCCACCAGGTTCTGAGGCCAGGCCAGCCTAC  
TGCCCAGAACCCCTGAAACGGCTCCCTGGGAAAAAGCTGACAGATGGGTGAGGGGTGGATT  
GAGCTGGAAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACCAACCA  
GTGGCTGATAAGGACAGGGAACCTTGTGGCTGGAGGCTCCCATTTGGGCCATGGGCAGGG  
CTTGACAGATGGCCTCAGCTCTGGGGGCAGGTAGAGAACTGCAGAGACTGATGGGCATGG  
AGAACCCAGACATGGCCCTGGGGCTGAAGGGCCTTTCCACCCTCTCTTACCAGGAGCCAC  
CTTTGCTCTATACTACATATGGGGCTTCAGGGGCCAAGGCACAGGGGAGGCTCAGAGGCCT  
CCAGTTGGGAGGAAGATGGGGCAAGGAAGGAAGCACTTGAGTGTCCCTAGCTTAGGCAGC  
CGGGGATGAGACACAGGCAGGACAACAGCACCCCGCATAGTGGGGCTAGAATGTGGGAC  
AGGGACGGGCTTATCCTCGGCCAGTGACTAGGACCAGCCCATGGCAATGGTGCCTGTCTC  
CAGCCTTAGCAAATCAAGTGTGCAACAAGCACAGGGTGTGCGCAGACCTGGGCTCTAGCCT  
TACAAGCTCTGCCAGAACTGAATCACACAGAGCTGTATCACCATGGTCCAGCCATGTCCTG  
CCTTGGCCTGTTTCTCTCTGTCAATGAGGGCTTTGAATAAGACCTCCTAGGTCATGAAA  
GGACTCTGCAGGTGAAGGGAACCTCCAGGACCTGCTCTTGGCAGTTAAGCAGACCCTGGATG  
GAACTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTGTTCTTGATGGAAC  
CTATCCCCACAAACACTACAGAGTGAGGAAAGGCCACTGGAAGCCCTTCTTTGCCAGAGG  
AAGAAAGGCCACAGAGAGAGTGAATGTGGCTTGGTGCAATCCCTTCACATCCTCCACCATCT  
GGGTAACACTTGGCAAGGAGTGGATGGGTGGCATTGTGCAACCCTTTATGTTCTTCCCTGG  
GGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTTCAGTGTAGGGTCAAGAGTG  
TTCTTTTCACTGTCGTCTGTTCTGGGAACAGCACAAAGACTCTGCCTGGCTGGCACATGTTA

Table 4

GTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACAGGGAGGTAAGAGTGA CTCTCT  
GGCTTTCTCCTCTTCTCCTCTTCAGAGAGCAGCTCAATCAACTGAGTCGCAGATCTCCTCCACC  
ACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACATGGTGGGAGGCACCCCTTAATCTCCA  
TGTCTCGGACATAGGAATCCGGCCGCTGCATCTTACCTTTTTTCCCGTACTGGTATCTATC  
CAGGTGTCGGACCCGCTAGATCATAGTGATAGGCACATCTTTTCGAATCAAGTGAATTCGCTC  
CAGCATAGGGCGCCGGGCCAGCCAAAGGACTCCATCATGGCTTTGAATGCTGTCTCACCA  
CTGGGATTCTGTGCGTTGCAGTGGTAAATATACTCTGATATGGTATCATCTTCAAAGAAGTCT  
GCAAACCTGCGTTTGAAGTCCGGCCGGAATCGCTGCACCAGACCAGGCCCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTGTAGTTGGTGGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTAACTCTATCAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAACCTGTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCT  
CTATCGATGTCACAACTCATCCTCAGCCCCCTCCGGGTCCCTTGGGAATGCTGGCCTTGA  
GCTTCGCCCGAAGCCAAGCAGATCGAAGGTGTGCAGTGTGCGGCGGGCACTCAGTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCCGCCCCCAAACCATGCACCATCACCAAGGGGGTG  
CGGTCGTTTTGCTCGGGGCTCACAGTCACCGTCCAGATCTTATTCTGGTTTGGGAGGGATA  
CATATCTGGCCAGGAACCTTATTCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTTCAGC  
TGAGACATGGAAGTGGGGCGCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGC  
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&gt;116

CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGTCGGT  
GGCGGCCAGCGAATTGGTGACGACGCTGATCTTACGTTGCGCCCGCGGATCTCGCGCAT  
CACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACG  
CGCGCGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCCTCGGC  
GGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTCTTCGACCATCGGGCTGTAGC  
CGAN

&gt;117

TGAGCTCACCGCGGTGGCGGCCGAGGTA CTCTAATGGAGCCACTCAGGACTGTCTT  
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCTAAAT  
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AAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTGAAACAGGCAGACAATCCT  
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GAAACAGGAAACGANN

&gt;118

ACCCCTAGCAGAAACAGAGTTTCGCCATGTTGGTCAGGCTGGTCTCGAACTTCTGT  
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CTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATC  
AGGATGAAAGAGGTGATTGAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTGA  
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GCCAAGGGCTCAAAATTGAGAACACAGGGATCAAAATTATTAAGAGAGACGGCTCTTAAACCAA  
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Table 4

AGGAAGGGGAGACGAACAAACCACGAGGGGTGGGGAGAAACAACACCAAGCAGAAGGGGAG  
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&gt;119

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CGCCGCGGTGCATCCTGGGAGTTGTAGTTTTTCTACTCAGAGGGAGAATAGCTCCAGACG  
GGAGCAGGACGCTGAGAGAACTACATGCAGGAGGCGGGGTCCAGGGCGAGGGATCTACG  
CAGCTTGCAGGTGGCGAAGGCGGCTTTAGTGGCAGCATGAAGCGCACCCCGACTGCCGAGG  
AACGAGAGCGCGAAGCTAAGAACTGAGGCTTCTTGAAGAGCTTGAAGACACTTGGCTCCC  
TTATCTGACCCCCAAAGATGATGAATTCTATCAGCAGTGGCAGCTGAAATATCCTAACTAAT  
TCTCCGAGAAGCCAGCAGTGTATCTGAGGAGCTCCATAAAGAGGTTCAAGAAGCCTTTCTCA  
CACTGCACAAGCATGGCTGCTTATTTCCGGACCTGGTTAGGATCCAAGGCAAAGATCTGCTC  
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GCTCTTTACGGTCCCCTGGCCAGTGAAAGGGTCTAATATAAACACACCCGAGGCTGAAATAG  
CCGCTGCTTGTGAGACCTTCTCAAGCTCAATGACTACCTGCAGATAGAAACCATCCAGGCT  
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GCAGAGCAGCATACAACGTAACCTTGTGCTGAATTTTATGGATCCTCAGAAAATGCCATACCTG  
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GGTGGACAGGTCAGCGGTGGCAGTGT

&gt;120

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TAGGCTGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTGGGAGGCCGAGGCA  
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TTAAGCCCAGGAGTTAGAGACCAGCTTGGTCAACATGGCAAAACCCAGTCTCTACAAAAAAC  
ANNN  
TGTTGGAATTTTAAAGAAAAGAAAGGCAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGTGA  
AGTCAACCTAATACTCTGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTAGTGTTAA  
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CCAGAACTTTATGTATTTGGGAAAAGTAAAATATACAACAGACATATCCCTGCCCTGATTAA  
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&gt;122

ACCGCGGTGGCGGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAAACCCTGAC  
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CCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCATTACATCACTGGCTTTTATTATTAA  
ATTGAATGTTGGCTGGAAACAATTTTAAACCCCAAATTTGTGACAAACAAAACCTATATGGAAAAG  
GNN

Table 4

&gt;123

TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGACCGATGGCGCGATTTC  
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CATAAAATAGCAGGAAGCTATACAGGACAGTGTGACGGTGCTGGACCACAAAACGGGAGG  
ACCGCAGACTAACACGAAGAGAAACCCAAGTATAACATCAGATATGCGTGGACCAAAGCCC  
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CCAACATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTGT  
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TCATGACCTAAGTGTTAATATGGCCCAAATTCCTTTAAGCTCCTGCTTTAAGGTTCAATA  
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CGGCCGCTCCACCGCGGTGAGCNNNNN

&gt;124

&gt;125

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CTGTACCTCGGCCAGCCACCCGCGNNNNN

&gt;126

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
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GCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
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GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
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Table 4

TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
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TGCAGTGCCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
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CTGTGCCACTTGTGTGAGAGAAGAAGAACACGTAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
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CATAACATTTAGAATAATGATGTCAATTTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

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NNNACTGAAAATGAGGTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAA  
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TTGCAGTAGAAAAAATCAATAGACTTAGAAAAATCAATAGAAGTAATNNNNNNNNNNNNNNNN  
NNNNNNNNNN

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NNNNNNNCCGCCCGGCAGGTACAGTCAAGGCCGAAAACCACTGAGCTTTTCCCTCT  
GCCTGGCACATATCCACTGCCCTGCCTTCCTTCAGCTGATGAACTCTTCATATGCCTCCTTTT  
GGGTGTCAGTGGAATGTCACTTCTTTCTAGAAGCTTCTCTGGCTCTCCAGCCTGGCCCAG  
GGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCATAGTATATGG  
AATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGAGCTGCT  
TCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTGGGCCAGAGTAGGT  
GCTTAATAAAAAATTGTTTGAGGCGGGCGTGGTGGCTCACGGCTATAATCCCAGCACTTTG  
GGAG

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NGAGCTCACCGCGGTGGCGGCGGCCGCGGCAGGTACCTATCTGCAGAACGGTCATT  
AGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAATTTAATGAGATTCAAAAGT  
TAATAGCCATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACAT  
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Table 4

TAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACCTAAAGTC  
ACCACTTCCTCATTCTGGTCCCCAATAACCCCTATAAGCCTCTCCCCTTGTAGGTGACCTCTG  
CCCTGTGAAGGGTTGGCTCACCCCAAGATTCCATAAAATAAGTTGTCTGTTTGTATGAGAA  
CAAGGCTTTTAAAGT

&gt;132

GTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGA  
AGATGTTCTGGGCGGCCAGCACAAATCGCCGCTTGCCGACGATGACATTGTTGGCCTTCAG  
CCCGTCAATATCGCCCTTGATGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGG  
CGGCGTTCGCCTTGCCGGTGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGC  
TGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCTTCTTGTCTGGGTGACATCACCGC  
GCAGCCGCGTGCCGCGGCAATGAACTGGATATTGCTCAGGCGTTTTCTGCTCTTGTGCAG  
GGCAAGTTCCGTGGCAAGATCGGCCCGCAGCCGTGAGGAACGCCAGACCGGATACCTT  
GCCGTCCGCGCGTCTTGACAGAAGTCCGTTGAAGGAGAACGCGCCTTCTGAGCTTGCCC  
CGGAAAGTTTGCCANN

&gt;133

GTGGCGGCCGAGGTACGATAATTTCATGCCAATTTCTTGGGAATACTTGTTTCTGAT  
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AACATAAATTTTAAACAGAGACCTGAAAAAACCCCAAAGTATTAACCTTTAAATACATAAAC  
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&gt;134

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NNNNNNNN

&gt;135

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NGGACAAGGGAAGGGAGGTGATAACAGCAGAAGTGGCAGCCACTGGCGATCCTTTCTTCC  
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TCATTCTCTCCATTATGACCTCTTGTCCACCCCAATCTCACCTCTCTGGACTTTGTTGCAT  
CTGAGAAGATCGAAGTCTTGGTCAGCAATGCTACCCAGTTTATCATCTTGCACAGCAAAGAT  
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AGAACTGAAAGTTTGTAGTTACCCTGCTCATGAACAAATTGCACTGCTGGTTCAGAGAAAC  
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Table 4

GAAGGGTTTTATAAAAGCACATACAGAACTCTTGGTGGTGAAACAAGAATTCTTGCAGTAACA  
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GTACATACCTTGTAGCCTACATAGTTTGTGATTTCCACTCTCTGAGTGGCTTCACTTCATCAG  
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ACAACAGCAGGATGGAATTACCTTTTAGAGCAATATGAACTGTCAATGTCAAGTGCTGAACA  
AAACAAAATTCTGTATGCTTTGTCAACGAGCAAGCATCAGGAAAAGTTACTGAAGTTAATTGA  
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CTGAAAAAATTTGACTTGGGCTCATATGACATAAGGATGATCATCTCTGGCACAACAGCTCA  
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GAAGGGCGGATCACGAGGTCAGGAGATGGAGACCATCCTGGCTAACACGGTGAGACCCCG  
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AAAAAANNNNNNNNNNNNNNNNNNNNNNN

&gt;136

CGCGGTGGCGGCCGAGGTACTTAAAAGTATATCAGGGCAGTTTCATGCCAGGGAG  
CCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCAGGA  
AAGGGCTCAGCAAATTTCTCTGTAACAGGATGCAGACCCCGCGT

&gt;137

GGAGTCGACGTGTGTTTGTGGGTGAAATGGCTGCGCAGGTGGAGCGGTGCGCGT  
AGTACGGGCGGTGGCGGCGCAGGAGGAGCCGGACAAAGAGGGGAAGGAGAAACCTCATG  
CTGGGGTCTCCCCGCGGGGAGTTAAACGGCAGCGCCGATCTAGCAGTGGGGGGTCTCAGG  
AGAAGCGGGGGCGGCCGAGCCAGGAGCCCCCTCTCGCTCCCCCTCACCGGCGGCGTGC  
AGCCGCCAACATCCTGGGCGGCTGCCGCCAACGAATGCAGCCCCAACTGTCCAGGCCCT  
GTTGAGCCTCTTCTCCTGCCGCTCCGCGGCCACCTTCGCTGGCACCCGCGGGCCCGCT  
GTCGCTGCCCTCTCCCGGCCCAAGCACCTCGGCCCTCTTACCTTCTCGCCTCTGACGG

Table 4

TGAGCGCGGCCGGGGCCCAAGCATAAGGGGCCACAAGGAGCGGCACAAGCACCATCACCACC  
 GCGGCCCCGATGGTGATCCCAGCTCCTGCGGAACCGATCTCAAGCACAAGGACAAGCAGG  
 AAAACGGCGAGAGGACTGGAGGGGTGCCTCTGATCAAAGCCCCCAAGAGAGAAACACCAG  
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 AACCGTCTGTGCTGGCCTGACCCGCATCAGTAAAGAAATTCTCACCCAAGGACAAATAAATA  
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 TCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAG  
 AAAAATGCTGCTTACTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTT  
 CTTGGACTACTTTGCTTTTAATTTCCCCAACACTCCAGTGAAAATGGAAATTTCTGGGCAAGAA  
 AGATATTGAAACAACCACCATTTCAAATTTTCACTCAGGTCAACAGGACATACTGCTGTGG  
 CACCTACCGAGCAGGTCTATGCGGCAGATAAGTCTCGTTGGAGCAGTAGATGAAGAAGTT  
 GGTGATTATTTCCAGAGTTCTTGATATGTTAGAAGAATCACCATTTCTGAAAATGACTTTG  
 CCCTGGGGTACACTTTCTAGCCTCCGACTCCAGTGTAGGTCCAGAGTGATGATGGGCCTA  
 TAATGTGGGTAAAGGCCAGGAGAACAGATGATCCCTACAGCAGATATGCCAAAGTCACCTTC  
 AAAAGACGACGATCAATGAATGAAATAAAAAATCTCCAGTACCTACCTCGGACCAGTGAACC  
 CCGCGAAGTTCTCTTTGAAGATAGGACTAGAGCTCATGCTGATCATGTGCGTCAGGGGTTG  
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 CACTAAGTGTAGAAATATGCTACGTGGAAAATTTGGGCAAGACATATGGGCGGACCAGGTG  
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&gt;138

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 ATTGACTTTGGAACCTCAGATTACATATCAGTTTGCATACATGCTAAACAGAGAAATGTCCCT  
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Table 4

ATATTAGTTGGGCCATAGTGAAAATTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGA  
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TAGAGACAACAGACACGCAATTCTGACGAGGACTCCTGTTACTAAAAGACACAGCCTCTGAT  
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GGCGGTAACACTACGGGTCTCCCCACCATATATTCCATGTCAAAGTATCTACACAAATACAG  
AGGAAATTAAGCAAGTAAATACGGTATGTAATTGTTATCATTGTATTTCTTTAAGGCATATTT  
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AATTTTCACTTACATATAACTTTCCAAGTGTGAAGTGTGTTGAAGCAATTATGTTTTTCATTG  
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&gt;139

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
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AGAGTTTAAAGAGTTTGGGATGGAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;140

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NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
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AGCTCCAN

&gt;142

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NNNNATAAGCTAGGGGCGTCCACTCCAGAGCCTGATCCAAAACAGAACGCTAACGG  
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CCCACCTCTTACTTCTGCGGTCTCCTTCTTTTATTCCCCCGCGT

&gt;145

&gt;146

NNNACCGCGGTGGCGGCCGAGGTACGCGGGGGAGATTTTCAACTTAAATCAAAC  
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GGTGGACAGGACTGTGGACGTGGTATTGCTGAAGATAAACCGAGAGAACTGGTGACAATA  
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GGGAGTGATTCTGACCTCTTCACTCACCCAGTGATGACATGGACAGCATCATCTTCCAAA  
GCCAGAGGAAGAGCATTTGGCCTGTGATATCACCGGATCCAGTTCATCCACCGATGACACG  
GCTTCACTGGACCGACATTCTTCTCATGGCAGTGATGTGTCTCTCTCCAGATTTTAAAGCC  
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Table 4

GGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGGAGATGGAC  
AGTATCACTGAAGTGCCTGCAAACCTGCTCTGTCTAAGGAGCTCCATGCGCTCTCTTTCTCC  
CTTCCGGAGGCACAGCTGGGGCCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCA  
CCGGAGTTTTTCAGTCTAGAAGGCTTGACAGGAGGAGCTGGTGTGCGAAACAAGCCATCTC  
ATCTCTAGAAGTAAGCTCTGCAAATGCCGAAGAGCTCAGACACCCATTTCAGTGGTGAGGAAC  
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&gt;147

ACCCAAGGTGGGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTCTTGTTAGT  
GTTGTTTGAAAATAAACAAAGAAAATGCAAACAAAACAAAACCATGGTCCATTCAAGCTCAA  
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ACATGACAATTAATAAGCCCAATTCTTTAAACTATCTGGAATTAGGTCAAATTATCTAATT  
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CACCCCGCTACTCAGAGTAAACCCGGAGCTTCATGATAACCATGAGGCCCGCAGCTTCT  
GCCTCCAAGGCTTCTCTGGCCTCACCTCCCGCTGCTCCTCTCCTCA

&gt;148

GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTGCGGTGC  
AGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACC  
TTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTACTCTGAG  
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AGCCTCTACCCACTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCG  
GCATATTTGTGGGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAG  
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&gt;149

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
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AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;150

&gt;151

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTGTTTTTTCTGTCCCCTCTGAGCCATGGAAG  
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AAAGTAGTTTTGTAAAAGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTG  
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GCTGTCCGAGCCTCCCTCCCTCCTCTTCTCGCCTTCAGGTAGATGGAAAGAAAGGTTCA  
GTCATCTGAGAGAATATCCGATTGTCCTTGAATTTTTTCCCTATTGACAAAGCAAGGCATG  
AATGAATATTCAGTCTGATTAGATCTTCCACTTGACAATGACTGTCAATTACCTGGCTAACAAA  
ATAATATACATCTGTGTATGTGAAACCACAATGGCTGATGTTTCAAATTCTTAATACATTATAA  
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&gt;152

NNNNNNNNNNNCAGGAAATCATCAATCGCAGTAGCAGTGAAGCAAATCAGGTGGTT

Table 4

CGTCCCAAACTTCAAGTAAATGGTCTGCTCCTGGTTCAGCTCCACAGTTAACTACAGCCAT  
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CTAAAAAAGTCACTGCAGCAGAGAAGAAAACATTGGACAAAGAAGAAAGGCGACAGAAGGC  
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CTGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCACGGCAGAACCA  
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TCGACCTACTGGATTTAGTCGTCCTGTTACAAGCATCTCAAGTTAGGGGCGTGGCGTGACAA  
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GAGGTTACAATACGGGTATTAGGAAGCAGCCCGCGAAATGGCGGAGGGGGTTGTACCGGC  
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&gt;153

GGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATT  
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NNNNNNNNNNNNNNNNNNNNNN

&gt;154

TCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCGGCTTTTCTGCGCGCGGTTTC  
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&gt;155

NNNNNGTGGATACATAAAAATGTGTAGTTTTTATTAGTTTATTATACTTTTATTAGTTC  
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GGGATGGAAGGGAAGGATGGGGGGGGGAAAAATACGGGGTTCTTTACAGAGGGGGCCCCCG  
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GCGTCAAACAANN

&gt;156

CAAAATAGAACCACCTGAAGTAAGACAAGGAAAGGACAGTAAAAAAGGCAAGGAA  
GAAGAGCTGAGAAAGAGCTGCAAGAAAAAAGATGTGAGAACTGAGGAGAAAACCAATGT  
GACTTTTCGACCAGAGAATTCATAATTAATAATGATGATTAGAAATCATTAAGAAACCCAA  
GGAACAACAAGAACATTGTGGTTCCCATCCTTTGGATGACTTCGACGTTCTTTTGAATGCT  
ACAAGATGATAACTTCAGCTGGATTGCATTTATGTCCTCTGTAAAAAAGAAAGCTATAGG  
AAGCCAAGATGCAAGCACCAGAGCGGGCGACCGCCAGCCCGGN

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TCTTCTCTGTTTGTGTTTTTTTTTAAATTTTACTCGTTCTTTATTAATATAGAAAAGGAGCCC

Table 4

AGGGCAGCTGGACCAGTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGGATG  
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GAGCTGGAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACCA  
GTGGCTGATAAGGACAGGGAAGTGTGGCTGGAGGCTCCCCATTGGGCCATGGGCAGGGG  
CTTGACAGATGGCCTCAGCTCTGGGGGACAGGTAGAGAACTGCAGAGACTGATGGGCATGG  
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GCAAACCTTGCGTTTGAAGTCCGGCCGGAATCGCTGCACCAGACCAGGCCCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTAGTTAGTTGGTCCGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTTAACTCTATCAGGGTACTTGTATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAACCTGTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCATGTCT  
CTATCGATGTCACAACTCATCCTCAGCCCCCTCCGGGTCCCTTGGGAATGCTGGCCTTGA  
GCTTCGCCCGAAGCCAAGCAGATCGAAGGTGTGCAAGTGTGCGGCGGGCACTCAGTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCGCCCCCAAACCATGCACCATCACCAAGGGGGTG  
CGGTCGTTTTGCTCGGGGCTCACAGTCAACGTCCAGATCTTATTCTGGTTTGGGAGGGATA  
CATATCTGGCCAGGAACCTTATTCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTCAGC  
TGAGACATGGAAGTGGGGCGCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGC  
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NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTCCGGCCGGGGCGGGCTTGAT  
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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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Table 4

GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTCTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
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CACGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAAACTGTACCCCAATG  
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AGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
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CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
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Table 4

AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAGTGCAATATGACACTGACACTATATTAAATTCAATAATACNN  
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NNCACGCGTCCGGGCTAATGAATCTTGGGGCCGGTGTCTGGGCGGGGCGGCTTGAT  
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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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GGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGACCATGGTTACCATATTGGGCAGT  
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CCAGGTACCAGACAGCCTGTGAACAACCGGGGAGGAAGTGGCAATGCATTGAGGATACATC  
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GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
ACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGTATT

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Table 4

CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAGATTTTGAAGGCGGCTTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
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TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
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ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACGAGAACTGCTCTCCCCCTC  
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CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
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CTTCCCAACACATAACTCCTAGTTATACTATGCACCAAATATGGATAAACACTGGATTATGC  
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CTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
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TTGGACTGGTCAAGGGGAAATCCATGCCATATGACTTTGATATTCTGTGCTTTTTTTTATTC  
GTGGTCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTGACTTGGCC  
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CTGGTTACCGTGCCAGCAGAAGCCAAAGAAAGACTCAACGGCAATTCTTGAGAAACCAGGG  
GACTCCAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTCTTGTCCGTCGAAT  
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CAGACAGCCCCGTTCTGGAACCTGGGATCTTTCTGTGCTTGACGAGTTCTAACAATAACAC  
CTACTGGTGTTTGCCTACAGTTAATGAGACGCATAATTTTCTTTTCTGTGAGTTTGCTACTGG  
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ATTCCAGAAGTTAATCATTTGAATTTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
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Table 4

GGGCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCCTGGAAAGGACATTTTTGAAGATCAACTATATCTTCCTGTGCATTCCGATGGAATTTCA  
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CGCCTCCTCTTCACTCTCCTCTGATTAGATGAAACTGTTACCTTACCCTAAACACAGTATTTT  
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AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
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CACTATTTTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCA  
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CAGCACCATGAATCAAACCTGCCATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCAT  
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NNNNNNGGACCCGGCTGCGGTGGCTGCGGGACTGACGCGCCACCGGAGCAGGC  
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Table 4

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NCGGGAAGTTCCAACCTGTGGCAGAAATGAAGATGGAACCTTCTCAAGAATAAACAGTT  
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CTGAGGCACGAGAGTCGCTTGAACCCAAAAGGCAGAGTTTGCAGTGAGCCAAGATCATGCC  
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GATAATGATTATGACAGACTGGCTGGGTGTGAGAGGTACAGATTTAAGGTTGATGGACTCAG  
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>173

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Table 4

GTAATGAAAATTATTAGTTCACTTCCCTGCTGCCATGAACTTTGCCTTAAGAAGGTGCTGG  
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 AAGGAGAAAAAATAATTTGACCTAGTAGTATAAACATGAGGCTTTAATGGTACTTTGCTATG  
 AAAAGAAAACACTGTATTCCTTATGCAAAACACATGTATCTTTCATTATTTATAAGTGGGCCTC  
 TCTTAGGCTCAGTTACTCAaTCAaACGTAGTATtttttaAAATAAattTATATc

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AGGGAGTCCGCCACGCGTCCGCCGGGTTTTAGTTCCTCGGGGAGCCCCTGGTG  
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 CGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATGCAATGCTGTGCGGGAAAGCC  
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&gt;176

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 AACTGCCGTATGTAAGTCTGTGACCACTGCTTACCACCTGCCTTCCACAGTTGAGTTTCTT  
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 TGGATTGAAGTAGAGGAGTAGTAGCAGGGTTTTCCAAACCATTTGACAATGGTCCATTAGCT

Table 4

TGCCTGAGCTCAGAGGCAGAAATCTGGTCTTGTGTTGGTCACAGCTGATTCTGCTTTGCTTTT  
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TCTTTCTTTCTCAATATTCTCTGCTGTGTTCTGATTCACTTCAGAAGGCTGAATGGAATCTCCA  
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TGGCGGCCGCCCCGGGCAGGTACCAAACCATTTTTCACTAGTTCAGGATAGGAATATT  
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CCAGTTTTTCAACTAGTTTATCTTTTGGGGCTTTATTATTTGTTTCTGACAACACTGCAGATG  
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&gt;179

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Table 4

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Table 4

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ACAGCTGAACCCGCCAAAATCGGACNN

>182

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CINN

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TAATGAGAATAGAAACGTAAACTATGACCTAGGGGTTTCTGTTGGATAATTAGCAGTTTAGAA  
TGGAGGAAGAACAACAAAGACATGCTTTCCATTTTTTTCTTTACTTATCTCTCAAACAATATT  
ACTTTGTCTTTTCAATCTTCTACTTTTAACTAATAAAATAAGTGGATTTTGTATTTAAGATCCA  
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TGATGGTTTAAATAGGTAAACCAACCTATAAACCTGACCTCCTTTATGGTTAATACTATTTAA  
GCAAGAATGCAGTACAGAATTGGATACAGTACGGATTTGTCCAAATAAATTCAATAAAAACTT  
TAAAGCTGACTTCGTTTGTATGTAGGCTGTATGCATATATTGAAAACAGAAGTGAACTTTC



### Table 4

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Table 4

CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
 TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
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 GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
 CCAATCTATTTCTTCCAGCTTCTCTGTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
 TTTTCGGCCGGTCACTGTGTCTTCGTTTCAATTTCTCTGGAGGATACTCGAGCCCCGCTCGAGC  
 CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
 ACTCGGGGTCCACCACATATTTGACCTCTAGTTTATCCCACTAGGTTTGTTCGAGAAATCGT  
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Table 4

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### Table 4

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Table 4

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Table 4

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Table 4

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ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACTTCTTCTTCATCTGTTAAGTCCTCCATATCTCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
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GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAAGGAACACATCATGCCGTGAAGCCAATTA  
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GCACATCCAGTTCTTTGATGTCTGGCTGCTTCTGCGGGCCAAGTGTCTTGTGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTGCTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGTCTGCGTGCACG  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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ACAGCTGAACCCGCCAAAATCGGACNN

Table 4

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CGCGGTGGCGGCCGCCCGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
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CCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAAC  
GAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATGAAGTCATGTATAAAAAATCAG  
GATTAACAAAGGTCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAAT  
GGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTTTAACTACCTGCTGCAACCCTGA  
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ACAATAAGGACTCAACACATAGCTATCATTAGACATTCAGTGACCAGCTGGGTGCAGTGGCT  
CACGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCGGGAGGATCACTTGAGGTCAGGATA  
TCAAGACCAGCCTGGCCAACATGGTGAATCCTGTATCTAATAAAAAATACAAAAAAGTTAGCT  
AGGCATGGTGGTGCATGCCTGTAATCCCAGTTATTAGGAGGCTGAAGCACGAGAATTGCT  
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CGACAGAGGGAGACTCTGTCTCANN

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CGCGGTGGCGGCCGCCCGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTCACAGATGTTTCTTCTTCTTCTGCCACT  
TTTTCTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTAACACTGTA  
TCAGATCTCATTCCCTTCCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCAATTCTCATCAACTAC  
CCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAAC  
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GATTAACAAAGGTCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAAT  
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ACAATAAGGACTCAACACATAGCTATCATTAGACATTCAGTGACCAGCTGGGTGCAGTGGCT  
CACGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCGGGAGGATCACTTGAGGTCAGGATA  
TCAAGACCAGCCTGGCCAACATGGTGAATCCTGTATCTAATAAAAAATACAAAAAAGTTAGCT  
AGGCATGGTGGTGCATGCCTGTAATCCCAGTTATTAGGAGGCTGAAGCACGAGAATTGCT  
TGAACCCAGGAGGCGGAGGCTGCAGTCAGCCAAGATCACGCCACTGCACTTCAGCCTGGG  
CGACAGAGGGAGACTCTGTCTCANN

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NNGTGCGCCATTGTGACCCGAGAATTTAATATACTTGTGCCCCGCGCGTGTTTTGTTA  
ACCGTCCGCCCAGAGTGCCCTCAATTTCTACCCCTCGCCCCTTAACCCAAAGCTAAATCCA  
CCATCTGGTATTCTCCCTAGAGCACCAGATGACCATCTGAAGCTGGACAAGTGTCTCTAAC  
ATAAAACATTACTGTTTACAAAACAAAAGCACAAACATAATTATGGAATAATAAAAAACAA  
GGGACAAACAGCCAACTGACTCTACCCACTTGGTGAGAAGTGATATACTTCAACTATTTTTT  
AATGCTTCTGAAAGTTTCTTGGCCACAGAGGACTAGGGTGCAATCATTCCCTGTGTTAGTG  
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CAGGAGTGGGCTGAGGGAGAAAAACTATCTCCACTCTTTTGGCCAGGCAATGTCAACG  
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GCAATCAAAGGAAACAGTTAAACACCAACAATTTCTTAAAGCCAAAAAATATTTTTTCATGGA  
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TCTCCCTCTAGCGGACAGTGGGTGGCCAGCCAGCCTCCCTGGTTAGATTGGGCAATGCCA  
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Table 4

GAGAAAGAACTTACAAAAGCACAAACCACCAAAGGCAGCCTGAACGGGGAGCCCTGTGCAG  
ACTGAGTTGCTGGAGACTACCCTCTCAGTCCCATTCTGGGGAAAGGTAGGTCACTCATGG  
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ATCTCTGTGCCACCCTTCCTCTCATCGGATATGGAGTGATTTCTTCTCTCGCTGCTGCGACG  
CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAAACACAAAGA  
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AACACTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCA  
CTGCCTATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAACAATCTG  
GGCAAATGGGTATGGCAAGAATGGGAACACCACAACAGGACAGATGCCAATCTCATTCTAT  
GCCAGGCCTTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTCCACCTCTTCCTTCAGTCTCAA  
CATCCACTTGTACCCCCAGCTACCTCCCATGTTCCAGGTATCATTGGCTCTTAACCTCCACA  
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AATTTAGCCATGTCTCAACATTCTGGATTATCTGAAAAGCTGTCGATGCCCTTTTACAGGTT  
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GTTTTTCATCTGTTTTGATTTTAAAGGCATTGGGTTACTTCTCCTGCCCTCTTTTCTTCCCTG  
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CATTAAATGGCTTTCCACATACAAATACAATAGAAAAGAAAGAAAGTCTGGAACCTGACTATCAT  
GGGACCAAAAAGTATCTTGGCCCTTTGGGAGTTTCTTGTGAGAAAGTATAAGCCTCAACAG  
GAAATAGAGGCTCCTTCTCCTTTGAGTTCAATACCCTCCCTGTGTCTACTCACCAGGAAAAAT  
AAGTGTGTTTCATATCCCACCTAATTTACAACAGAAGATAACCCCATCCCATCCCCAAAACATA  
AAAATACAAGTCTATGCCCATAGAACN

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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAAGGAACACATCATGCCGTGAAGCCAATTTA  
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TCCAAATAAGAACAAGGACACACATTGTGTCAGGTACGGAAGATCATTGAGTTTCCATATGCT  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTCTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTTCATGTGTCTTCTGTTTCATATTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTTCCAGAACTTTC  
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CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCCTCTGAACCTCTCCTCTCCTTAAGAGGTGGCCGGGA  
GACTTCTCAGGGGATTTTGCAGACGGGCTGGGCTTGTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGAACCTCTTCAT

Table 4

TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACTTCTTCTTCATCTGTTAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCCTT  
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GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTCATGTGTTCAAGCTGAAGGCTC  
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GTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
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TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTTC  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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GGGAACTTCTTCTTCATCTGTTAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
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TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

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NNNCTCGCTCTGTCACTCAGGCTGGAGTACAGTGGCGTGATCATAGCTCACTGCGG  
CCTCGGTCTCCTAGGGTCAGGTGATCCTCCCATCTTAGCCTCCTGAGTAGCTGGGCATGTG  
CCACCACACCTGGCTACTTTTTAAATTTTTTTTTCTGTAGAGACGAGGTCTTCTATGCTGT  
TCAGGCTGAATTCATGGGTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCCTTG  
ATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTATTTTTCTTGTCTTGAGATTGCTCTGGA  
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TTGCTCTGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGATCCCATC  
CACACACCCCAAAAAAAAAATTTATGTCTGGTTCCAGGAGTTACCTTTTATGAGAAGTCCATC  
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GGGCCCGGTGGCTCATGCTTGTGGTCCCGGCACTTTGGGAGGCTGAGGTGGGCAGATAAG  
CTGAGGTGAGGAGTTCCAGACCAGCCTGGCCAACGTGGCGAAANN

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CGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTG

Table 4

AGGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
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AAGAAACCCAGTAAATGTTTGTGATTGAAAGATATTAATACTCTTGCTTGGATGAGAGTGAG  
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GCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCAACTACT  
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CACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGCAGCCATAGGTAGCCATGGGACAAAGT  
TCTAACCCAGGGGGGGTCCAATCTTTGGCTTCCCTGGGACACACTGGAAGAAGAAGAATT  
GTCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGCAAAAAAAAAAAAA  
AAAAAAAAAGT

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NATACTGTTCAAAAATTGGCCTCCGACCACAAAGACATCCACAGCAGTGTTTCTCGG  
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GAGCAGCTCTATCAGTACATGGTTGGAGGACATAGGCGCTTCAAACAGGAATGCATAGGG  
AGAAACATAAATCACCAAGTTATCAAATCAAAGAAGGAGATACCATAAATGTGGATGTGACTT  
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AAGCCCAGACACATGGAGAAGTTCTGAGTGTCTTGGCCGATAGTCCAGATGAGGTTCCAG  
CAACAGCTGGGATCACCCATGAGATGTGAGTGAGGAAGGCTTTGAGATGGTTTCAGCCCTA  
GCCACCACTGACCTCATAAGAGACCACAAGAATGAGAATCACCTGGCCAAGCCCAGCAGAC  
CTTCAGAATTCAGAAATAAAATAATTCATCTTATTTCAAAAAAAAAAAAAAAAAAAAA  
NNNNN

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NCCGCCGAGCGGGGAATCTGCAGTAGGTCTGCCGGCGATGGAGTGGTGGGCTA  
GCTCGCCGCTTCGGCTCTGGCTGCTGTTGTTCTCCTGCCCTCAGCGCAGGGCCGCCAGA  
AGGAGTCAGGTTCAAATGGAAGTATTTATTGACCAAATTAACAGGTCTTTGGAGAATTACG  
AACCATGTTCAAGTCAAACCTGCAGCTGCTACCATGGTGTATAGAGAGGATCTAACTCCT  
TTCCGAGGAGGCATCTCCAGGAAGATGATGGCAGAGGTAGTCAGACGGAAGCTAGGGACC  
CACTATCAGATCACTAAGAACAGACTGTACCGGGAAAATGACTGCATGTTCCCTCAAGGTG  
TAGTGGTGTGAGCACTTTATTTTGAAGTGTATCGGGCGTCTCCCTGACATGGAGATGGTGA  
TCAATGTACGAGATTATCCTCAGGTTCTAAATGGATGGAGCCTGCCATCCAGTCTTCTCC  
TTCAGTAAGACATCAGAGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGG



Table 4

ACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATC  
TGGTAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGA  
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GATGCAGAATACACCAAAAACCGGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGC  
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AGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGTTTCCATGTTGGTGA  
TGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGCCATGGGTTCACTATATCCCAGTCAAAA  
CAGATCTCTCCAATGTCCAAGAGCTGTTACAATTTGTAAAAGCAAATGATGATGTAGCTCAAG  
AGATTGCTGAAAGGGGAAGCCAGTTTATTAGGAACCATTTGCAGATGGATGACATCACCTGT  
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GAAGTAGTACAACCTATTGCTGGAATTGTGAAATTATTCAAGGCGTGATCTCTGTCACTTTAT  
TTAATGTAGGAAACCCTATGGGGTTTATGAAAATACTTGGGGATCATTCTCTGAATGGTCT  
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&gt;221

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Table 4

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>222

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TCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTTGGGCTGGGTTATTGCTTCATATAG  
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CCCAGCTTCTCATAATAAATACTACATGCTGTTGCTCGTGGATTGTTGGGAATTGGAGCAG  
GAAATGTAGCAGTTGTTAGATCATATACTGCTGGTGCTACTTCCCTTCAGGAAAGAACAAAGC  
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GGCAGNCTGGGTAAACATAGGGAGACTCCATCTTAAAAAAACATCACTGGGCGCGGTTTAC  
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CACCNNNNNNNNNNNNNNNNNNNNNNNNN  
>223

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Table 4

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&gt;224

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Table 4

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&gt;225

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Table 4

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&gt;227

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Table 4

CTCTTCCCCAGCTTCCAAATGAAGAAAAGTCTCTTGAGAGCCACAGAGCAAAGGTTGTAACA  
CAGAGGTCAGAGATAGGAGAAAAACAAGACACAGAACTTCAGGAGAAAGAAACACCTACAC  
AGGTATACCAGAAAGATAAACAAGATGCTGACAGACCCTTGAGTAAATGAACAGGGCAGTA  
AATGGAGAGACTCTCAAACTGGTGGAGATAATAAAACCCTACTTCACTTAGGCAGCTCTGC  
TCCTGGAAAAGAGAAAAGTGAAGCTGATAAGGAACTTCTTTGGTAAAGCAAACATTAGCAAA  
ACTTCAACAACAAGAACAAGGGAGGAGGCTCAGTGGACACCTACTAAATTGTCTTCCAAA  
ATGTTTCAGGTCAGACAGATAAATGTAGGGAGGAACTTTTAAACAAGAATCACAACCTCCA  
GAAAAAATTTCAGGACATTCTACAAGCAAAGGAGACAGAGTGGCACAAGTGAGAGCAAGA  
GAAGAAAAGCTGAGGAAATTCTGAAAAGTCAGACTCCAAAGGGAGGAGACAAGAAGGAATC  
CTCCAAGTCATTAGTGCAGACAAGGGAGCTTCACTATAGAAAAACCCAGCCCAAACATACCCA  
TAGAACTTATCCCCATATAAATAAACAGACTTCCTCTACTCCTTCTTCTTAGCATTAAATC  
TGCAAGTAGAATACGAGAAAGAAGTGAGTCTTTGGATCCTGATTCTAGTATGGACACAACCC  
TTATTCTAAAAGACACAGAAGCAGTAATGGCTTTTCTAGAAGCTAAACTACGTGAAGATAATA  
AACTGATGAAGCCAGATACTCCAGTTATAATAGAGACAATTCTATTTACCAGAATCTG  
ATGTAGATACAGCTAGTACAATCAGTCTGGTTACTGGAGAACTGAAAGAAAGTCAACCCAA  
AAGCGAAAGAGTTTCACTAGCCTCTATAAAGATAGGTGTTCCACAGGTTCTCCTTCCAAAGAT  
GTTACAAAATCATCATCTTCAGGTGCTAGGGAAAAAATGAAAAGAAAACAAAAAGTCGTTCC  
ACAGATGTGGGTTCAAGAGCAGATGGTCGTAAATTTGTTTCAGTCCAGTGGGAGAATAAGACA  
GCCCTCAGTAGACTTAACAGATGATGACCAACCTCTAGTGTACCTCATTCTGCCATCTCTG  
ATATTATGTCATCTGATCAAGAACTTACTCTTGTAACCTCATGGACGGAAGTAAAGTAACGAAATCTAAGACTTCT  
CAGCTGATGAGCATGTACATTCCAACTGGAAGGAAGTAAAGTAACGAAATCTAAGACTTCT  
CCGGTGGTATCTGGTTCATCTAGTAAATCAACCACCCTTCCAAGGCCACGACCTACCAGGAC  
TTCCCTCTTGCAGAGCACGACTTGGTGAAGCTTCAGACAGTGAAGTCTGCTGATGCTGACA  
AAGCATCTGTTGCTTCTGAAGTATCCACAACAAGTTCTACATCAAACCTCCCACAGGAAGG  
CGTAACATCTCTCGGATTGATTTATTGGCTCAGCCTCGTAGAACACGACTTGGCTCACTGTC  
AGCTCGTAGTGACTCTGAAGCAACAATTTCTAGAAGTAGTGCCTCTTCGAGGACCGCAGAAAG  
CCATCATTAGAAGTGGAGCCAGACTAGTACCATCAGATAAATTTCTCCTAGAATTAGAGCTA  
ACAGTATCTCTCGACTCTCAGACTCCAAGGTCAAAGTATGACCTCAGCTCATGGCTCTGCT  
TCAGTAAATTCAGATGGAGGCGCTTTTCTACTGATTATGCTTCCACCTCAGAAGATGAATTT  
GGATCAAACCGTAATTTCCCTAAACATACCCGTCTACGTACTTCTCCAGCCCTGAAAACCA  
TCGCTTGCAGAGCGCTGGATCAGCAATGCCTACTAGTTCTTCATTCAAACACCGGATTAAG  
AGCAGGAAGACTACATCCGAGATTGGACTGCTCATCGAGAAGAGATAGCCAGGATCAGCCA  
AGATCTTGCTCTCATTGCTCGGGAGATCAACGATGTAGCAGGAGAGATAGATTCACTGACTT  
CATCAGGCACTGCCCTAGTACCACAGTAAGCACTGCTGCCACCACCCCTGGCTCTGCCAT  
AGCAGACTAGAGAAGATTGGTTGATCGTGTGTTTATGAAAGCCTCAACTTCGGAAGATTTC  
TCCATTAGTTTCATTCCAAAACACCAGAAGGAAACAACGGTCGATCTGGTGATCCAAGACCT  
CAAGCAGCAGAGCCTCCCGATCACTTAACAATTACAAGGCGGAGAACCTGGAGCAGGGATG  
AAGTCATGGGAGATAATCTGCTGCTGTATCCGTCTTTCAGTTCTCTAAGAAGATAAGACAAT  
CTATAGATAAGACAGCTGGAAAGATCAGAATATTATTTAAAGACAAAGATCGGAATTGGGATG  
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TATCAATCCTTTCAAATATTTAGATAACCACTTGATGCACAAATAGGAAAAAGCAGATTGTG  
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AAAATTTTCCAACATAGATGTGATTTATATAACTTTGTTGATACGTAAATTTGCTTGGGGTTTA  
CGGAAATTAACATATTATGTTTGCATAAGATTTGCTGGGAGTGGTAGGTGGACATATCTATAT

Table 4

ATCAATAAGGACTAACCGTCTTTTTGTACATAGGAGATTGATAATACTGTATTTGTTTTAAGC  
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GTGACAGTTGAAAAAGAAATCCCTTGAAATGATCATGAGGTTAAAATTTTCTTCATTAGGGG  
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TGTGTGTTCCCTGTAGGACTCAATAGTAAATGCTGTCTGTCTTACACATTTATAAGGACCCT  
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TCTTTAACTTGTTTTTCTCTTCCAGTAAGTTCACATTTGGATAATTTTAAAAAGAAAAGTAA  
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TGGTCTTTAATATTTCCACAATAATCCTGTGCTATATTTGTTTTAAGAAACAAAGTAACTCTAT  
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GACTGAAAAAAGGTTTTAAGAACATAAATGGAAAGATACAAATGCTTTGAAGGAATAAACGA  
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CTGGAACTTTAAAAAAAAAAAAAAAAACGGCACGAGGGGGGGCCCGGTACCCAATTCCCCCTA  
TAGTGAGTCGTATTACGCGCGCTCACTGGCCGCGTTTTACACACGTCGTGACTGGGAAAA  
CCCTGGCGTTCCCAACTTAATCGCCTTGCANN

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTAGTAGAGACGAGGTTTCTCCATGTT  
GGTCAGGCTGGTCTTGAACCTCCCGACCTCAGGTATCTGCCCGCCCGGGCCTCCCAAAGTGC  
TGGGATGACAGGTGTGAGCCACCACCCCGAGCCTGTTGTAAAACTTCTTAACTTTAAAAA  
AAAATAACCCATGAAAATGGCTTAATAAAATAACATTCCAATAAACTCTTCTATAATACTTTTT  
ACAAGTAAAACTGACCAATGTAAACAGGTTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAT  
AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGCGCTCGACCGCCCGGGC  
AGGTACGGCCTGTCCGAATGATGCGTTGCGATTGATTGTCTTCACCCAAATAATTTATCTA  
CCCGTTCATACCCCGAGAGTTTAGACATTCTCTCCCAACTCCATGGCCCTGCTGTGACC  
CAGAGGAAGAGAAAGCCATCATCCTGTAGTACCTCGGCCTTGAGCCTGCGCATCTCATCAT  
CTGTCAGGGTCCCATAGGGCAGTTCCATGTGAATATCNCAGGGTGGGTGAGCCATCACAAC  
TGCAAACCTGCCCAAGATACTGACGTCCAGGTAGCGGATATCACAACAGATCCACTGCATAA  
AGTGGTATTTGGTCATCTTCCCTACTTTAACTCTGAGATTGATGGCCCGAGTCCCTCTTTCC  
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GATTGCTGAATTATGCTCTGCTTTCTTAACGTGTATGGCTGCCCTATCAAACATAAGTCCGTA  
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NAGTCGACCCACGCGTCCGTGGCATTATTTCTCTCTCTACAAGGAGCCTTAGGAGG  
TACGGGGAGCTCGCAAATACTCCTTTTGGTTTATTCTTACCACCTTGCTTCTGTGTTCTTGG  
GAATGCTGCTGTGCTTATGCATCTGGTCTCTTTTGGAGCTACAGTGGACAGGCATTTGTGA  
CAGCACTATGGGACTGAGTAACATTCTTTTGTGATGGCCTTCTGCTCTCTGGTGCTGCTC  
CTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACCTGCCATGCCAATTTGCAAACCTC  
AAAACCAAAGCCTGAGTGAGCTAGTAGTATTTTGGCAGGACCAGGAAAACCTTGGTTCTGAAT  
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AACTGTCAGTGCTTTGCTAACTTCAGTCAACCTGAAATAGTACCAATTTCTAATAACAGAAA  
ATGTGTACATAAATTTGACCTGCTCATCTATACACGGTTACCCAGAACCTAAGAAGATGAGTG



Table 4

TTTTGCTAAGAACCAAGAATTCAACTATCGAGTATGATGGTATTATGCAGAAATCTCAAGATA  
ATGTCACAGAAGTGTACGACGTTTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCA  
ATATGACCATCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTTATCTTCACCTTTCTCTA  
TAGAGCTTGAGGACCTCAGCCTCCCCAGACCACATTCTTGGATTACAGCTGTACTTCCA  
ACAGTTATTATATGTGTGATGGTTTTCTGTCTAATTCTATGGAAATGGAAGAAGAAGCGG  
CCTCGCAACTCTTATAAATGTGGAACCAACACAATGGAGAGGGAAGAGAGTGAACAGACCA  
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CGAAGACATCTTCATGCGACAAAAGTGATACATGTTTTTAATTAAAGAGTAAAGCCCATACAA  
GTATTCATTTTTCTACCCTTTCCTTTGTAAGTTCCTGGGCAACCTTTTGTATTCTTCCAGAA  
GGCAAAAAGACATTACCATGAGTAATAAGGGGGCTCCAGGACTCCCTCTAAGTGGAATAGC  
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CACTGAATCTTGTGTACCTGTGACTAAACAACCTACCTCCTCAGTCTGGGTGGGACTTATGTAT  
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GGATAGTCTGTGCAAATGGACATAAAACAGACAGCAGCTTCCCTGGTGGTCAGGGAGGGGC  
TTTGCAGATACCCAAGCTATTGGGAN

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CACAGCAAACCAGAGAGAATAATACAAATGAATGAAAAGTGAACCAAAACAAACAG  
GAACCATCTCTACATTTTTTTTACTCAATCGACCCTGAATGCTACAGCATTATCCAGGGCCGC  
AGAAAACACACATAATACTTTATTCCTGATAAACCATTCGATGTCCTTAAGTCCGCCCATATC  
ACCGTACATTCTGTGCCATCAAGAAATTTACTCAGCTGGGCACAGTGGCGCGATCTCAGCTC  
ACTGCAACCTCCGCCTCAGAGGTTCAAGTGATTCTCCTGCCTCAGCCTCTGGAATAGCTGG  
GACTACAGGCACCTGCCACCACACCCAGCTAACTTTTTGTATTTTAGAGAAGATGGGGTTT  
CATCATGTTGGCCAGCTGGTCTCAAACCTCCTGATCTCAGTGATCCATCTGCCTCAGCCTCC  
CCAAGTTATAAGATTTTTTCTCTGGTTTTTAGTAAATGTTTTTTTTGAGATTGCTTAGCACC  
AGAATGATTTGCAAATTTGAAAATAGGAACTCCACTAGGAATGCCGGATAGAAGAGTGCTTC  
ACATTTGTAGAGGGAGACAAGAACTAAATATCACGACGTCTTTCTGAGCCTTTTGGTTTGCTA  
ACGTGCCCCAAATTCTTATTTCCAAACGGTATAAGATAATTATGTGTAAATGAATACCAGCTCT  
ACTTAGTTTTATTTTATATTTGTGGATCTGAATATATTAATAATATCTTTTTTTTTTTGATGCG  
GAGTCTTGCTCTGTTGTCCAGCCTGGAGTGCAAGTGGCATGATCTCGGCTCACTGCAACCTC  
TGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGTATTACAGGAGT  
GTGCCATTAGCCTGGCT

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gGCGGCCGCCCCGGGCAGGTACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAA  
CGGAGAGACTCAAGATGATTCCCTTTTTACCATGTTTTCTCTACTATTGCTGCTTATTGTTAA  
CCCTATAAACGCCAACAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCCGG  
ACCAAGGCCCAAATGTCTGTGCCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGC  
ACTTGTAAAGAACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGT  
TGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGCCCATTGACCA  
TGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCA  
AACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAGG  
CTTGGGACAACTTGGATTCTGATATCCGTAGAGGTTGGAGAGCAACGTGAATGTTGAATTA  
CTGAATGCTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAAATGGC  
ATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTCATTAACCATTATCCTAATGGGGTTG  
TCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTGTTGCCAT  
GTCATTGACCGTGTGCTTACACAAATTTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAGAT  
GACCTTTCATCTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGGAAGAGA

Table 4

CGGTCACCTTCACACTCTTTGCTCCCACCAATGAGGCTTTTGAGAACTTCCACGAGGTGTCC  
TAGAAAGGATCATGGGAGACAAAGTGGCTTCCGAAGCTCTTATGAAGTACCACATCTTAAAT  
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AATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGAACAAAA  
AGGATATTGTGACAAATAATGGTGTGATCCATTTGATTGATCAGGTCCTAATTCCTGATTCTG  
CCAAACAAGTTATTGAGCTGGCTGGAAAACAGCAAACACCTTCACGGATCTTGTGGCCCAA  
TTAGGCTTGGCATCTGCTCTGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAA  
TGCATTTTCTGATGATACTCTCAGCATGGATCAGCGCCTCCTTAAATTAATTCTGCAGAATCA  
CATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTTACAACGGGCAAATACTGAAACCATCG  
GAGGCAAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATG  
GAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCGATTACATATTCGCGAGATCATCAAGC  
CAGCAGAGAAATCCCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTCCTCAGC  
CTACTTGAAGCTGCAGACTTGAAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGT  
GCCAACCAATGATGCTTTTAAGGGAATGACTAGTGAAGAAAAAGAAATTCTGATACGGGACA  
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CAAAGAAATCCCGTGACTGTCTATACAACCTAAAATTATAACCAAAGTTGTGGAACCAAAAAT  
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CAAAATTGAAGGTGAACCTGAATTCAGACTGATTAAAGAAGGTGAAACAATAACTGAAGTGAT  
CCATGGAGAGCCAATTATTAATAAATACACCAAATCATTGATGGAGTGCCTGTGGAAATAAC  
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CTACTGGAGGTGGAGAAACAGAAGAACTCTGAAGAAATTGTTACAAGAAGAGGTCACCAAG  
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CCTAAGTCAATAACCTGACCTTAGAAAATTTGAGAGCCAAGTTGACTTCAGGAACCTGAAAC  
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CAATAAAGT

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NNNNNNNNCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTT  
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AACTGTATAATGTGTTCTGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAATTCCT  
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GCAGCTTTGCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTTTTATTTTCATAATTTG  
GAGGGATGGGGAGTTGTGCTACAGAACTTAGTAGGTAGAGGACAGGGTTAGTGCTGAA  
CGTCCCACAGT

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TATAGGGAGTCGACCCACGCGTCCGCTTAAAGAGGAAAAAGAGGGAAGAAGATGAG  
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AAAAACCAGCCTGGCGAGGACAGCCCTGGACCCACTCCAAGTCTCTAAGTAAACACAGCA  
CTGCCCGCTTTTAGCGTCTTCACCTTCTCACAGAGTTCCAGTGCGTGGTATTCTTTGAGGT



Table 4

ATTCTTTCCAGGCCGAGATTGAGCACCTCATGTACCTACGCCACAGACAGCCAGAGGGAAA  
GCGACCCAGACAGCAGCCCTCCTCGACAGGCCACCCTGCAGCTCAGGCACCAAGAAAA  
CAGCCGATACTGGCAGCCATTGCAGCTCCAACTGCAGAGGCAAGGCCAATTTTAACTTTTC  
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCATATATGTATTTTG  
GAATCAGTTCTTATAAACAGCTCGATTAGTTTCTAGCTAAATTTATAGTTTAGGTAGTATGTTA  
CATTTGAATTTTGTCTTAAGAAAAGTTGACTGTTGAGATATTTTCTACTGTAAAGAAATATA  
CTTTTCTATTAAAGATCTGTACATATTTTACAGTAAATGCTTTATGGAAGTGTATTTAGAGC  
CCTCTATGGCTTTAAGGCCTTGCTTACTGCTGCAAATTTGAGAAATTTAAAAATAAGCATTCT  
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ACCTCTTGATAAGCATTGTGTACTAAAAAAATTTTGAAACATTTTGTATATTGGAGATCTC  
TCTCATCTTAACGCTTTGCTTAAATCCTGGGCCTCTTTTAAACGGGATTAGGAGAAAACTAT  
TTAGCCCATTTTTTTTCCCCTCAGGGAAGTGGGCCCCACACCCACCCTGTCAAAGCGCT  
CCCCCGGGCCNNNNNNNNNNNNNNNNNNNN

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ACGCGGGGGGGACGTAAGGTGGGGCGGTGAAAGAAGTTTGCTGACGAAGATGGC  
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CCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTC  
AAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCCAGA  
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CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATGAGGCTCT  
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CCTATACCAGACAGCAAAGAAACAAGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTA  
TGTTTGACCCACGTCCTGTGGCCAAAAATGTCACTGCAAATGACCTTCAGGAGAATATC  
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AGATGATGTCAGAAAAGAAAAAGAAGAACCTACTCCAGAATCTGTGGCCATTGGTGAATTG  
AAGGGAACCAGCAAAGAAAATAGGAACCTATTATTTCTGGCTCTCCAGCTGTCACGATGAC  
ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTCTGAAGG  
ATCCAGAGTTGTCTCCTATGGTCCATGCAGAATTTTCTGTTTAGTGGGCAGGTGTTATTCCTG  
CCCACAGCAAAGCTTGGAAGTGCAGCTTGCTTGCTGCATTTTGAATTGTCAAAGCCAACTAA  
TACCGTGACCCGACTGATACCTTAACCCCACTCACTGGATGATGTTTGCAAGCTGTGCCTT  
CTGAGAGAGTGCTTAGGCCCTGTCTCTCTTTTTTAATATTATGGGGAAACCACTAACTATCCA  
ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATTCT  
CACTTTTGAATAAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAGCACTGTCC  
CAGTGGATTGATGTTGTTTTAATGGATATTTTGGGTTTTTCTCTGTTTTGATAGTATTGGGTA  
TTTGGTTGTTTTGTTTATTTCTTTGTTTTAAAGCCATGTTTTGGTTGGGCTCTAAGCT  
AGATATCTTTCCCTCTTTTCACTTTGAGCTTTGGGAAACTCTTTATCTTATGAGGCTGTATT  
CCTCAATACCTAATTTGTGTCCAAAGAATTTATAGCTCTTCTGGACATTTTTTATTATTTCTTG  
GGTGTGACATCAGAGTATTTGACCTGCAGTATTGAAAAAGGAGAATTCAGAAATGATACAGTA  
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AAGCTCTGGAGTGTGCCTAGGAGGGGGCTGGCTGCCTTTATGTCCAGGATGACTCTTTAT  
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Table 4

GGATCAGAAAGAAGAAGCAAGCAGCAGCCTCTGCAGGGCTGACAGGATTTAAAGGAGAGAA  
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 GAGCCCAGAAATTCCCAATTGAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTG  
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Table 4

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 AAGTAAAGT

&gt;242

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Table 4

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Table 4

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Table 4

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 GCGN

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**>250**

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Table 4

TTTTAACAAATCTTAATTATTAAACTCTTTTCCTTCCTCCATTCTCCCTCCCTTGCCATCTC  
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&gt;251

&gt;252

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&gt;253

&gt;254

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Table 4

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>255

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Table 4

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>257

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Table 4

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>268

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>269

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Table 4

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&gt;277

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&gt;279

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Table 4

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>280

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TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAAATCGCTGATTTGATG  
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Table 4

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>281

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>282

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>284

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Table 4

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Table 4

GGGACATTGAGGCAACAAAGGTTGCGTTTTAGGAACACCACAGGCTTTTCGGAAATATGGC  
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Table 4

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Table 4

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Table 4

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Table 4

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NNN  
>296

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>297

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### Table 4

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Table 4

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Table 4

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TGACAAACACACTTATCTGTCTCTTCTACAATTGTGGTTTATTGAATGTGATTTTCTGCACTA  
ATATAAATTAGACTAAGTGTTTCAAATAAATCTAAATCTTCAGCATGATGTGTTGTGTATAAT  
TGGAGTAGATATTAATTAAGTCACCTGTATAATGTTTGTAAATTTTGCAAAACATATCTTGAGT

Table 4

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CAGTTCATAAGTTACTTCTTGAAATTCAACTTGGATTGAGTTCTTTAAGAAGCTCAATCAAG  
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TGTCCATTAGAATGTCCCGTTTTTTCAGGGTATAAAAGTGGTGGCAGCACCACGGGACAGCGT  
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ATAGGGAGTCGACCCACGCGTCCGAAAGCACTTGAAAGGAAACAAGACTCCCTTTC  
ACACATGGATTATTATAAGTTTCAATCCTGGTATCTGTGCTTGATTTTTATCAGTTTTGTGTAG  
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CGGTTGGTGTAAATTATTCTTTTGTGTACATTTTGAAGGAAAAACATAAAGAATGTATCC  
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ATGCTCTGTAGAGGCCAGGGTGTCTTGAGTGCTGTAACCTCCAAGCACTGGGCTAGCCTGA  
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CCATGTCTGCATAGAACGTGTTCAAATCCTCTGTTTTTCATTAAATGTAAAGATGCTGTCTCC  
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GGTATTTTTAGAACACACTTATTTGAGGAAAGAGACATCAGATGCACAATTTACATTTATAAA  
GGAACAAATGGGGAAAACGAAAACATAAAATTTTAAATGTATTAAATGCCATCCCTGAGCCT  
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Table 4

TGTGCTGACACTAATCAAGTCCTGTGAGGTTTAAATTATTGACCTATCCACTCTACCTCCATT  
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TTCCAATAAAGGTTTATAAAACAGTTAAAAAATAAAGTTTGTAGCCT

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NNCAAGCATTGTTGTGGTCCGCTGTGCCCTCCCCCTCGTGTTATCTCTATTCCGGG  
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ACACACTAAGCTCTTCATTTTTCTCTCAACTTCTCTCAACATACTAGCCAAGTGCCGTGCC  
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GGCCTTGGCAATCCTTTACATTTTTTTCTTGTAAAGCCTCATCTAGATTTTGTCTGTGAAC  
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Table 4

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GCTGGGGGCAATTGTTTAAAGTCATTTTGTTCCTGACTAGCTGCCTTGCACATTATCTTCATT  
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NNNNAGCTTGGCACGAGGCCAGGATTTTTGAACTTTACATTCTTACGGTTAAGCA  
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TCTGATGAGTCTATGGACCAATTTGTGGAGGACAGTAGATTAAATAGATCTGATTTTTGCCAT



Table 4

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TTGGAGAAAATGGGCCAGTGAGATCATGGATATAGAAGTACAGTCAATGTTTCAGCTGTACCC  
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CCACAGCTATATCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGA  
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CCAACATTTTTTCCAGTGAGTCACATCCTGGGATCCAGTGTATAAATCCAATATCATGTCTT  
GTGCATAATTCTTCAAAGGATCTTATTTTGTGAACATATACAGTAGTGTACATTACCATATAA  
TGTA AAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTTATACCAACTAAAAACC  
CCAATAAACCTTGAACAGTGAAAAA AAAAAA Aaaaaattggggcgcgccgggccccgaaaa  
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gccggtccgaaacagggtcgggtcggaac

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NNCAAGCATTGTTGTGGTGGTCTGTCCCCTCCCCCTCGTGTTATCTCTATTCCGGG  
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CAGAGAATCACATGTGATCTGTAAATCTTTATTCTTTTCACTACTTTTCAATTTCTCTGAAGA  
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Table 4

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GGCCTTTAGCTTTTCGCC

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GCCGCCCGGGCAGGTACAAGGTTTGGTGATGTAGGCGATTTTTTTACCACATTCGA  
ACAGTGATGGTCAGTCACTTTCTGTAGAGTATCTGTGTGCATATTAACGCTCTAATTATATTT  
AAAATCTTATTTTATATAGGATGTAATTGGAAAATCGATGAATCAAGCAATCTGTATTCCATTG  
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AATAAACTTCAAATCTACATTATCTTCTTTTACTATTCTAGAAGATCCACTTTATAAAATGTG  
CATCTTAAGGAGACATACTGATATTTCTCAATCTGTGAGTAATGGACTAATTGCTATTAAATTT  
GGGAGCTTTACATATGCCACAACAGAAAAAGTCAGAAGAAGCATCTACAGTTGTTTAGATGC  
ACAGTTTTATGATGATGAAACTGTAACAGTAGTTCTTAAAGACACTGTAGGACGTGAAGGAA  
GAGATAGACTCTTGGTCCAGCTGCCTTTGTCTTTAGTATATAACAGTGAAGATTCTGCAGAAT  
ATCAGTTCACTGGGACTTATTCTACAAGGCTAGATGAACAGTGTAGTGCTATTCCCACCCGT  
ACCACTGCTCATCACTGAATGACTTTATACATGCATAATAATGACCACCAGCAGCGCTCCCA  
GAATGAACCATAACAGAGAAAAGTTTCATAGATCAAGGAATTTCTTTTCAAGTCCAGATTTTGAG  
ATCTTTTCAGTTCCACTATTGGTTTCAAGACAGATTCTTCATCAACACCATCATCATTGGAG  
AAATCGTTGCTCATCTGATCACTGTGACAACTACCTTCATTTTCTGCTCCACTGTCAGTGCAA  
CTTTCAGTCTGAGGAGATTTCTCATCTTCAACATCAATAAAAGTACCTCGGCCGCCACCGCG  
GGGAGCTCCAA

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Table 4

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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
ACTTGGAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACATAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
AGTGTCTGGTATTTTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCGGGCGGCCGCCCGGGCGGCCGCTCN

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NNCTCTGAAGATGATACCAAATTCCTTTTGATAATTTTTTAAGTTTCCAGCTCTTCAC  
CGAAATGTTGTATTCTTATTTTCACTGTTTCTTCCAGACATTTTTAAGGTAATTGGCTTACTAC  
AATATGGACATTCACCAAATATGATGTTAAACTCTGTCTACTAGTTAGTAGCTCTCAGCC  
ACTCATATAAGCATATTTGATGGAAAGGTTGTCCACACTGAGAATTATCACACACTTGATCAG  
GAATGGTACCGTCAAGTTGATAAGCATAACAAATCCACAATCCATAGTAAATCAGATTTTT  
CCAGGATAGCACGAGCTGGAAATCAATTTCTAAACATCTTCAAATTTTGTAACACACTAT  
TTTCTGGATCCCTGAAAGCATGGGGAAAAAATTATGCTGTGAACCTTTGTAAATCACCAAAA  
AGTAAAAATTATATTGCCAAGGTACCTACCACAAATGTATGTTCTGCTCAGCTTAATTCCCA  
GGGGTTTTTACCACTTCAGATTAATAAAAAAAAAAATTAATAATTGCATGCTCTACTCTTGGTTTC  
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TATGTTAAAAAACAAAATTATACAGTTTCAAGATGCTGAGACATTGTCATTTAAATAACTATCA  
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GTCTCAGACAAAAAATAAAACTACCATTAAATACTAATAATTGTCTAATAATTTAACAATGCT  
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CTCCAAGAAAGAAGCACTCAGGAAGCATAGTAGGATGCCTGGGGTCTACCTCTATATTTATG  
GCAACATTATTACCTAATGCAATTCTGCGTGCATGTTGCACCCCGGGGAGGTTTTTCTGGCT  
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TTGCTGCCAAAACTGACTATAAATGCTTATTAAGGAGCTCTGAGGAGAATTTACCTGAGGT  
GTCCAGGAGGCACAAAATGGAACAGGAAATCCACAAAATAATCTGGTGATTCTGCAGGATA  
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GATGGTACCTCGGCCGCCACCCGCATACACAAGTTTATCCCAACCAAGAGTTCCTATCTCT  
CAATAAGGCTTGAGTAGAACTGGGGAGTGATTCAAACCTTTTAAATTTGACAACCTGCTTCTCT  
TTTTCTGTATTTTCAATTTTCTATTTGAAGGAAGATATTTATTTCTAAATGGCTCCTGCAG  
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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
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GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
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AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCGGGCGGCCGCCCGGGCGGCCGCTCN

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TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
AATAAACTGCCACATCTTCAGCCTGCAGGCTGCTGGTGGTGAGAGTGAAATCTGTCCAGA

Table 4

CCCGCTGCCACTGAATCGGTCAGGGACCCCGGATTCCCGGGTAGACGCCAGTAAATGAG  
CAGTTTAGGAGGCTGGCCCGGTTTGTGCTGGTACGCGGGAGAATGGCTCGCAAGCTGACT  
GTGAGCTCGGAAATCCTTTTAAAAGAAATTCAAATGTCACTTTTTATTTGGTTTTAAGTACCTC  
GGCCGCCACCGCGGTGAGCNNN

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TGTCACAGACACTCCTGGGTTTGGAATTTTGTGTTCTCTGTCTCTTTGATTTCTGG  
AAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTC  
TTAGCACATTCTGTGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGGCCTTGGCA  
CATGTTCTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTCTCTACGCAT  
CCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTTTTGGGTGAGAGTGGGCACCC  
CTTTCTCCAAGGCTCCCTGCAACAGCTGGCCTGTCCCTGGTGGGGCTGACAGCTTTCTTCTT  
ACCCTGCCAGGCTGGCCAAGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTG  
GACGTTGCTACTCACTAGCTTGGATGGGCACCTGCTGGAGCCAGATGCTGAGTACCTCCAC  
TGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAGGTGACGTGTCCCTACC  
TCCCCCTTCCCTGCCCAGGCTCCGGCATCCACCGTCTTGCCTTCTGCTCTTCAAGCA  
GGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCTCACCCTGCTATCAGCTGGCCAG  
CGGACCTTCCGCACTTTTGATTTCTACAAGAAACACAAGAAACCATGACTCCAGCCGGCTTG  
TCCTTCTTCCAGTGCCGCTGGGATGACTCCGTACCTACATCTTCCACCAGCTTCTGGACAT  
GCGGGAGCCGGTGN

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TCCGAAATGGGGGAAAATCACTGCTCTTCCAGAGCGCATACATGTTTTAACCGTCT  
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AATCAACAGTTCTTGACTGCCAACTTTTTCCATTTGTTATGTTCCAAGACAAAGATGAACCC  
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CGTGGTTCAAGCCAACTGGCAGCATTTGGCCCAATCCAAATTAGAGCAAGTTAAATAAG  
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TCATTTCTTGCTTATGAGTGCCCTGCATGGTGTGCACCATAGGTTTCCGCTTTCATGGGACAT  
GAGTGAAAATGAAACCAAGTCAATATGAGGTACCTTTACAGATTTGCAATAAGATGGTCTGTG  
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TACTAATGACAGATTTTATGCTTTATAATGCATGAAAACAATTTTAAATAACTAGCAATTAATC  
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GGTGAAGGGACATTACAATATGACTAACAGCAACTCCATCACTTGAGAAGTATAATAGAAAAT  
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TAATAATTTTTTAAGATTCATATATGTGATAGTATGATATGCATTTATTTAAAATGCATTAGAC  
TCTCTTCCATCCATCAAATACTTTACAGGATGGCATTAAATACAGATATTTCTGATTTCCCCCA  
CTGCTTTTTATTTGTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCAGCAACACT  
GAAGAGATCAGTAGTAAGAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTC  
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GAAGGTATTCTTCATTTTAATTGCTTTTGGGATTACTCCACATCTTTGTTTATTTCTTGACTAAT  
CAGATTTTCAATAGAGTGAAGTTAAATTGGGGGTCAAAAAGCATTGGATTGACATATGGTTT  
GCCAGCCTATGGGTTTACAGGCATTGCCCAAACATTTCTTTGAGATCTATATTTATAAGCAGC  
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CATAGGTGTTTGTAAAGAACTGATTGCTCTCCTGTGAGTTAAGCTATGTTTACTACTGGGACC  
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AATGTTCTGAAAAAGGGTTATAGAAATCTGGAAATAAGAAAGGAAGAGCTCTCTGTATTCTAT  
AATTGGAAGAGAAAAAAAGAAAACTTTTAACTGGAAATGTTAGTTTGTACTTATTGATCATGA  
ATACAAGTATATATTTAATTTTGCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
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Table 4

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GGGCTTACAGTGGCGGGAGTTGGAGGCGATAACGATTTGTGTTGTGAGAGGCGCA  
AGCTGCGATTTCTGCTGAACTTGGAGGCATTTCTACGACTTTTCTCTCAGCTGAGGCTTTTCC  
TCCGACCCTGATGCTCTTCAATTCGGTGCTCCGCCAGCCCCAGCTTGGCGTCTGAGAAAT  
GGATGGTCTTCACAATACCCTCTTCAATCCCTTCTGACTGGTTATCAGTGCAGTGGTAATGAT  
GAACACACTTCTTATGGAGAAACAGGAGTCCCAGTTCCTCCTTTTGGATGTACCTTCTCTTCT  
GCTCCCAATATGGAACATGTACTAGCAGTTGCCAATGAAGAAGGCTTTGTTTCGATTGTATAA  
CACAGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGGAATGCCG  
TCTTTGACCTGGCCTGGGTTTCTGGTGAACCTTAACTTGTTACAGCAGCAGGTGATCAAACA  
GCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGCAG  
CCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTACGGGTGGAAGAGATG  
GCAACATTATGGTCTGGGATACCAGGTGCAACAAAAAAGATGGGTTTTATAGGCAAGTGAAT  
CAAATCAGTGGAGCTCACAATACCTCAGACAAGCAAACCCCTTCAAACCCAAGAAGAAACA  
GAATTCAAAAGGACTTGCTCCTTCTGTGGATTTCCAGCAAAGTGTTACTGTGGTCTCTTTCA  
AGACGAGAATACCTTAGTCTCAGCAGGAGCTGTGGATGGGATAATCAAAGTATGGGATTTAC  
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CAACCTCCTACTGTGCTCCTGGGTCACTTCTCAAGAGGTCACGTCTGTGTGCTGGTGTCCATC  
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AGGCTTAGAGGAGAAACCAGGAGGTGATAAACTTTCCACGGTGGGTTGGGCCTCTCAGAAG  
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CCCCAGGGTAAAGTGCAATCCATCCAATTCTTCCCGTCATCCGCAGCTTGTGCCCAAG  
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CAAGGCCCGGTCTCCCATCAACAGAAGAGGCTCTGTCTCCTCCGTCTCTCCCAAGCCACCT  
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CACTCCACCTGCTTCGGAGACCAAGATCATGTCTCCGAGAAAAGCCCTTATTCCTGTGAGCC  
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CTCAAGCTGTCTGGAGAGTGTGAAACAAAAGTGTGTGAAGAGTTGTAAGTGTGTGACTGAGC  
TTGATGGCCAAGTTGAAAATCTTCATTTGGATCTGTGCTGCCTTGCTGGTAACCAGGAAGAC  
CTTAGTAAGGACTCTCTAGGTCTACCAAATCAAGCAAATTTGAAGGAGCTGGTACCAGTAT  
CTCAGAGCCTCCGTCTCCTATCAGTCCGTATGCTTCAGAAAGCTGTGGAACGCTACCTCTTC  
CTTTGAGACCTTGTGGAGAAGGGTCTGAAATGGTAGGCAAAGAGAATAGTTCCCCAGAGAAT  
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CGTCATCCAGACACCCAATTCCAGGAGACAGAGCGGAAAGACATTGCCAAGCCCGGTAC  
CATCAGCCCCAGCTCCATGAGGAAAATCTGCACATACTTCCATAGAAAGTCCCAGGAGGACT  
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TCCACTAAAACAAGCTGAGCTTTGGTCCACTAAAACAAGATGAAAAATACAAGAGTGACTCTA  
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CATCTTCTCTATAATAATGACATCCAGTTCATGGAGGCAAAAACAAGTTTCTTGTTATCCT  
GAACTTTTCTATGCTCAGTGGAAGTATCTGCCAGCCACAGCATGAGGCCTGTGAAGGCTG  
ACTGAGAAATCCTCTGCTGAAGACCCCTGGTTCTGTTCTGCCTCCAACATGTATAATTTTATT  
TGAAATACATAATCTTTTCACTATGCTTTTGTGGGGTTTTTTTTTAAGTATGTGTAATAATGTGA  
TGCTCAGATAAGTACATTTATATCAGTTCAGTGTTAAATGCAGTCTCTTGAGTTAAAGTCATC  
TTTATTTTAAATGCAGTGATAAATGTCAACTCTTCGGAGAACTAGGAGAACAAACAGAAA  
GCTGTGTTTGTCTTTTTTCTCTCAAATATATCTCCCGTATGAGATTTTCAAGTCCCCTGTTTC  
ACCAAGCAATCTGCTATGTCAGCCAACCAACATCACTTTCTACAGGAGGTTATGATTTTTGC  
CATTTACTAGAGGAAGATGTTTATGAAATCAATTTGGGGTTTGAATTCAGGTGCAGTCATCA  
GTTCTTTAGGGGCTGCAATGTTTTAAAAAATAAGTCATCAGATTTTAAAGAAAAAGTGATG  
ATTTCTTATTGATATTTTTGTAAACAGAATATAGCTCTTAACTGAAAATCCAGAACCAGAAACAT  
AAATCTTGAGTTTCTTTTCTATGTACATAAAAAGCAATAGCCTTTTAGTATAGATAGCCCTGAGC

Table 4

CAAAAAGTAATAGAATTTTCTCTAGATATTTAATACAGAGAGTGTATAGACTGACTCTAAGTTA  
ATAATGTGCAAAATATCTTAAACATCCCTCCCCTTATTCAACAATTATGTATCAGTGATCTTGA  
ACCATTGTTTTATATTTTACCTTTGTAACTCATGGAAAGAGGCTTTACATACTTTCTATGT  
ACTATTTACTTAGAAGGGAGCCCCCTCCAGTCAAGAACTTCATTTGTTTTATCCATATCCC  
TGAGGACTGTGTAGACTTTATGTCAGTTCTGTGTAGACTTTATGTCAGTTTTGTCAATTATTG  
AAAATCTATTCTGACAACTTTTTAATTCCTTTGATCTTATAAGTTAAAGCTGTAACAACCTGAAAT  
TGCATGGATCAAGTAAGCATAGTTTTATCCAGGGAGAAAAATAAAAGGAAGCCATAGAATTG  
CTCTGGTCAAAACCAAGCACACCATAGCCTTAACTGAATATTTAGGAAATCTGCCTAATCTGC  
TTATATTTGGTGTGTTTTGTTTTGACTGTTGGGCTTTGGGAAGATGTTATTTATGACCAATATCT  
GCCAGTAACGCTGTTTATCTCACTTGCTTTGAAAGCCAATGGGGGAAAAAAATCCATGAAAA  
AAAAAAGATTGATAAAGTAGATGATTTTGTGTTGATCCCTACCCATCTCCTGGCAGCCCTACT  
GAGTGAAATTGGGATACATTTGGCTGTCAGAAATTATACCGAGTCTACTGGGTATAACATGT  
CTCACTTGGAAAGCTAGTACTTTTAAATGGGTGCCAAAGGTCAACTGTAATGAGATAATTATC  
CCTGCCTGTGTCCATGTCAGACTTTGAGCTGATCCTGAATAATAAAGCCTTTTACCTTATCTG  
ATGTCCTTTTTTGAGCTTTTTGCATTACCTAGAAGCAGTCTACAAAAAAGAACTATAGTAGTCA  
AGAATCCCTTCTACTTGTTTCAATAAAATGTTTATCCCCAGTTATAATCTATTTCAAGCTGAAA  
GAGCTTTTAATAAAAAACATCTTGCNNNNNNNNNNNNNNNNNN

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NNNAGTGGCATGGGGGTGGGGTCTGACTCCACACACTAGCCACATGGCCAACAGC  
ATAGTGAAACGGGGTCCCATTCTCCATGTCATTGTGTAATCCAATGGTGGCTCATAGAGATG  
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GAATCTCACTCTTTCCCTCTTTAAAGTCTCAGGATCCTTCTTATCTCCCTTTCCCCCATAGTCT  
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GAAAACACAGGAATGTGATGTCGAAAAGGGACTTTTTTTTTCTTTCACTGTGCTTCTCTCCT  
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CAGCCACTGGAAATCAAGGAACTTCACTAAGAAATTAACAGATCAGCAAAACACCGCCTCC  
TTCCCATTTTAGCACGTTGAGAGTGGACTCAGTGAGGAGTGAGAAGGCTGTTCTTTGGGGTG  
GGGTAAAGTTTTTAACTCCACACATCATATAAATCACTTTAGAAGAGGATGACTGGTGCCT  
TAACCCCTTCAAACCAAGTCATCGGGGTAAGTCTCTTCCAGTATGTTTTTACCGCGTCGAC  
TCCNNN

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ACTTGACTGCTAACAACCTTCAAATTCTTCTACTTACTCCCTCTTCTTTCAGCTTCACAT  
CTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAAGCTCAAT  
CCATGCAAGCCCCAGATAATATGAGAACCTCCCCAACCTTACCCTACACCCCTCACCTCC  
CAATCCAAGCCAGTCTCCTTTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGGAAGCTC  
CCTCTGCTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGT  
GTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGTN

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TGCGGTGATCACAGCTCACTGCAACCTCCGCTCCCGGGTTCAAATGTTTGATAGGTTTTAT  
ATTGTCTTTTTCCATCCTCTTCAGACATCCTTCAAAGTTGAGCCCTTTTTTCCGCTGTGAGTC  
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CATGGCTTCCAGTGATGTGGGAAAGATGGACTCTGATCTCCAGGGTAGAAGTGGCAACCA  
GAGTAAGCCAGTTCGTTGAAGCAAATGATGGCTGCAGTGAAGAGTACCGAGGCACACCCAT  
CCTCAAACAAGGATCCCACACAGGGCCAGAAATCAGCCCTCCAGGGTAACAGCCCTGACTC  
CGAGGCCTCCCGTCAGCGCTTCAGGCAGTTTTGCTACCAGGAGGTAAGTGGCCACATGAA  
GCTTTTAGCAAACCTCTGGGAACTCTGTTGTGAGTGGCTGAGGCCGAAGACCCACTCAAAGA  
GGAAATCCTGGAGCTGCTGGTTTTGGAGCAGTTTCTGACTATCTTGCCAGAGGAGATCCAGA

Table 4

CCTGGGTGAGGGAGCAGCATCCAGAAAACGGCGAGGAAGCTGTGGCTCTGGTTGAGGATG  
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AGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTC  
AGAAGCCTGGCTTGTCTCCTCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGAC  
CAGGAGACAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAAC  
AGAGCTGTATCCCTCTGTCTCAGCAAGAATGGATGTGCCAGGCCCTGCACAAAGGGCCCTCT  
ACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCTCGCTGGCAACAGGTGTGCCCTGGG  
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AGACCTGTCAGCAGAACAGCCAGATCTACAGGGCCATGGCGGAAGGACTCTGGGAGCAGG  
GTTTTCTGCGGACCCCAAGACAGTGTGCGACCAAGTTCAAAAGCCTACAGTTGAGTTACCGC  
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AGGCTCCTGGGCCTCTGCACCTCCTATGGCAAGCGATGCTGTTCTGGCCAAGAAGGAAGT  
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TGTCGATGTGCTCTCCCAAGCAGGTCAATGGAAAATTTCAAGTCGGTTGGGAAACTTTCCA  
GTCTATTGTCGNNN

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TCGACCCACGCGTCCGGGCCCCGCGCTGACGGTGTCCCTGGGGCTCTGCGCTCGTC  
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CTACTGCCGGCTCCGCGCCCTTCCCCGAGGGCTGGATGATGGGCTGTTTCGCCCTGCAAA  
CGGTGGACACCGAGCTGACCGCGGACTCGGTGGAGTGGTGCCCGCTGCAAGGCTGCAGG  
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GTGTACATCCCGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGTGCCATCCTA  
CAACTACTCCGCTGGTGGAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCTTGT  
CCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCACTGGGAAAACCTGGAAGGGC  
CGGGGACCAGCCCTTGAAGATCATCAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATG  
GTGAATGAGACGAGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCGAG  
GCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTAGGGGGCGACGATG  
GCCTTCTGAGGGGCTGGGACACCAGGGTACCCGGCAAATTTCTCTTACCAGCAAAGACAC  
ACCATGGGTGTGTGCAGCATCCAGAGCAGCCCTCATCGGGAGCACATCCTTGCCACGGG  
AAGCTATGATGAACACATTCTACTGTGGGACACACGAAACATGAAGTAGCCGTTGGCAGATA  
CGCCTGTGAGGGCGGGGTATGGAGAATCAAGTGGCACTCCTTTTACCACCAACCTGTT  
TGACGTCTGCATGCACAGN

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTATATTTTTTTTTTTTACAT  
CCCAAACAGGTCTTTTTATTTAACATAAGGCCAAAGAAGCTATCAGGCGTTGCTGAATACTGT  
CCACTAACTGTACAAAATATTGACTGCATGCCTCGCAAACACCAAAATATCCGCTGGAATGC  
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GCACTGTTTTTCAAAGCATTTAATAGAGGGTAAAACCTTTGGAAATTAATACAGAAGAAAT  
GATTCACTTTATGCATAAAAAATAATAATAATAGCTGAGACATGTGGTTTGTCTCTGCTCT  
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Table 4

TTATTTATTTTGTGGGTTTTTCAGGGTGACTAAGTTTTTCCCTACATTGAAAAGAGAAGTTGCC  
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 CCATAAAATACATGTTACTATTAAGATATTTAAAGACAAATTTCTTTTCAGAGCTTCTAAGAT  
 TGGTGTGGGCAGATTTTTAAGAGCCTAGAGTTTAGTCTTAGAGAAAGAGTGAGGAGATAGTA  
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 ATTTAAAGCCTTTACTTTTGGCCTCATGCTGCTAGGTGAAAGAGTGGTTGTTACAGGACTTG  
 TATTTTCCAAGATGATTAAAGATGGTAAATACTATCTTTCAATGTTATCAAAAAATGGTAGCA  
 ACTTATACTTCTATTTCAAAGCCATATAAATTTAACAAAATTAAGTTTGTGGGTGTTTGATAA  
 CCCAATCACTCAATATCCAATTAATAATGGAATAAGTTTCAAATAAAATATGGAATTACATTT  
 CTCTGCTTCTGATAACTGTGGTCACTAATCAACCCCATGTTATCCCCGATATGTCTAGGACT  
 TAGCTTAAAAAGATAGCAGATGTATTTGAGATGAGTGGGAAGTATACATGGGTATCAGCTTTC  
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 TTAATTTCTCACACTGTTTCTGCAGTTCCGGTACCAAGAAAGATGCAGTTCAAAATCTGCC  
 AGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAAACTTTTTCTCA  
 CCACACCCACCTTCCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTC  
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 CTTTCTATAATTAATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCTTCAATATTTTAC  
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 AGGAAATTTCCGACGCGTGGGTGCACTCCCTATAGTAGN

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Table 4

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 GAACCTATACTGTCTTCTGTAAATCTTCTTACTACCCTATGACCCGTGAGCCAACTTTCTC  
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 GATTTGCCACAGCAGCGGATAGAGCAGGAGGAGCACCAGCCGAGCCCTTGAGACATCCTTGA  
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 ATGAGCATGGGCTCTGGGCCATCCACTCTGGGCCAGGCACCCATAGCCATTGTTTCTCAC  
 AAAGATTGAGCCGGGCACACTGGGAGTGGAGCATTGATGGGATACCCCATGCAGAAGCCAG  
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Table 4

GGGCCCTCATCGCATCACCTGCATCTATGATCCACTGGGCACTATCAGTGAGGAGGACTTG  
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CCAAGAGCTTAGATGAGAGCATATCATCAGGAAAGTTTCAACAATGTCCATTACTCCCCAA  
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CTGTCACTTAGAGTTTAGGTGAGTAACACAATTACAAAGTGAAAGATACAGCTAGAAAATAC  
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CCTCCGCCTCCCGGTTCAAGCAGTTCTCCTGTCTGAGCCTCCAGAGGAGTAGCTGGGATTA  
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TGTGGTCAGGATGGTCTCAAACCTCCTGACCTCAGGTGATCTGCCTGCTTCGCTCCCAAA  
GTGCTGAGATTAGAGGCATGAGCCACCATACCTGGCTCTTTTGTCTCATCCATCCCTTAATTT  
CTTTGCTGGAGCATTTTAAAGCAAATATCAGACATACCCTTTACGCCTCACACTTCAACATG  
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CGCAGTATGCCCTAACGCAGCGTTATCTTACAGAGCTACCACCAGCTTCCGAAACCTTTCCGA  
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CTTTGCGCCTGCGTGCCGCGGCTCCGTTTGGTTCCGCTTCGCTGGCGCCCGCGGGCTCT  
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ACTTGACTGCTAACAACCTTTCAAATTCTTCTACTTACTCCCTCTTCTTACAGCTTCACAT  
CTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAAGCTCAAT  
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CAATCCAAGCCAGTCTCCTTTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGAAGCTC  
CCTCTGCTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGT  
GTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTN

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Table 4

CCCAAACTTTATAAAGAATACTTTAGGATGGAGCTGATGCATGCTGAAAACTGAGGAAGG  
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GGCGAGAATTAGAGATTGAGTCACAGACAGAAGAGCAGCCTACAACGAAACAAGCCAAAGC  
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CINN

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NNNNNNNNNNCCGCCGCTGCTGGTCTTATTATTGCCCGTTGTTTCTGGATGTGA  
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Table 4

AAGTGGACATTTTACTGGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCCTGGGGGAA  
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CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
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ANNNNN

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CCAGGCCATCTACTGTCTCCCTCACCTGCCCTAACCTTTCTGAGTCCCTCCCTCTCTTG  
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CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAAACACAAAGA  
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Table 4

AACACTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCA  
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CCAGCCCCACTATAATTGGCAGTATGTTTGTTCATGTTTCTGAAAACATTTTCTTTAAAAAG  
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CCACCTCGGCCTCCCAAGTGCTGGGATTACAGGCATGAGCCCCACGCCACGCCACACT  
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Table 4

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GTCAGGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCT  
GCCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACCAGTCA  
GTTGGCAGTTTTGCTGCCCTTGCCCAAGCCTCCAGCAAACTAGCTGGTCCCCTGCTTGTCT  
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Table 4

AATCTTTTGATTCCAAGTTTTATGTTGCACACAATCAATTCTATGAGCAGGTTTTAGTGCCAAA  
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ATTATCTTTGAGGAAATGTGACCAAGGCACAAATTAAGGAGGAGTTGGAGGCATCAATTG  
GTTGACACTGTTGTCTTCTGTTCTGATCATTTTGGACCTTGAAGAAATTGGTGATTCTCTC  
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Table 4

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CACCTGTTTTACTAGCTTATAGTGATCTGATTTTCTGATCTTTTTTACATACATC  
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CACACCTTTAACACCAGCATGTTGGGAN

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TGTCCTCAGCTACCATTTTCTCAAGTCCTTCTCTTGCCTCCATGGTACCAGTTCAGCAAAG



### Table 4

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Table 4

TGGAAGGGCTAAGTTGGGGGGTTTCCAAAGAGCTTTATAGTCTCATGAATCTTCATGCAGTA  
CTACCACTGGAACTCCCATTCCAGGCAGCTTTTAAAGAAAGAAGCAAGATGGCTATCATG  
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GCGGAGCCATCAGCTCCTATGATCACAATGCCTTCTTCTGGATACCTCCTGAAGGACCTGCC  
TGAGGCTATTTTACAAATTAATTTGTGTTTAAATAGTATAAGGAGTACGCGGGGAGCACCATG  
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Table 4

CCTGCTCGGCCCCAGATTGGTCCTTGCCATCTCCTTCCATCTGCCCATTAACCTCTCGCAAGT  
GCCTCCGTGAGGAGATTCACAAGGACCTGCTAGTGACTGGCGCGTACGAGATCTCCGACCA  
GTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATT  
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GACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCA  
AACCATTAGAGGTAGAGCTGCGACGcctagaagacctTCagaaTCTAttgttaaTGATTTTgcctAcATGA  
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cctgtactcagcagcagaacatcgctgggacgtgcttgcttaggatctaccacgcccctcagggccgttgagctttctgcgaactgat  
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attcccgttgcggcctgtgggggttctccgcccgggcttcaggcgctgcctc  
>375

NNCTAATCTCTTCTAGGCCCGCCCTTCTGAGCCCCCCTCCTTCGGCCTGTATG  
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GGTCCGGCTGGCGGAGATGTGACCGCGGGCCCGGCCGCTGCCTCAGGCGTCGCGTCA  
GCTCCCGTGTCCGTGCCCTTAACCCACACCGATGGCGGGATCCGGCTGCGCCTGGGGCGC  
GGAGCCGCCGCGTTTTCTGGAGGCCTTCGGGCGGCTGTGGCAGGTACAGAGCCGTCTGGG  
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CGGCGCCCTCAAGCAGTTCTTGCCGCCAGGAACCACCGGGGCTGCGGCCTCTGCCGCCGA  
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CATTGTGCAGCCCATTCTTTAGCATTCTTTTGCCCTCATATTGAAGATCTGGTCAATGCTTC  
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Table 4

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CCTGCTGGAAGCCTCCTCATATTTCTTATGTTTGCCATGCAGGTTGCTGAGAGTCCAGTTA  
AAATTTGCATTTTACAGAATGAAATACTTTACCCCATTCAAACAATTATTGTTTGACATTTTAGT  
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AAAGGAATTCCTTATAAGGGCAAGTATCCTAAGTTAGCACATTTACTTTTCTCTCCCTCCGC  
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GAGAANN

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TCTTTTGCTCTTTGTGTAAACATAGATATTTATGTCAGGTGTATATGCCTCCGCTTTAAAGCA  
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TCATCCCCATGGAGCATTGCACCACCCGCTTTTTCGAGACCTGTGACCTGGACAATGACAAG  
TACCTCGGCCGCCACCGCgg

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Table 4

AGTGGAGGTCTGGCCGGAAGGAGGAGAGGTGCTGTGCTGTGTATGAAGAGGCAGTGAAGAC  
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TTATAACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATTGTTTAGAGACT  
CTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAGCCCTGACATAGC  
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CATTTTCAGTTGACTTTTTTTCAGGAAAATGATTTCAGTTTGAAGAGGAGCAAGAATCCTGCAATA  
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CTTTGGATGGATTATATGAAAGAAGAATTGAACCAACCCCTTGGTAGACCTGAGAACTGTGG  
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TGGCAGACAAGATGGCTGTCTGTTTTGAGACACACTTTAATTTTATGTTAACTTGTTAAATC  
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NNNNN

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NNNNNNNNNNNAAACCAACTTTGTGATTTTTATTGATGGGCGACAACCTTTATACTCCT  
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GACTGTCTGGTTCATCGATGCGCAGCCAGCCATTAGACCGATCTGGAAGACGTCTGTAGTG  
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GGTGGCATTTAAATTTCTATTTTTAACCCCTGGAGAAAGCAGTTCTTTACTAATTTCCAAGTC  
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NNCACGCGGTGGCGGCCGAGGTAAGTCTAGCCAGCCAATAAAATATAAACTCCAT  
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TAGGCAAGACCTTGTGCCCATTAAACAGGTCTTAAAGTAACAAGAGCGGCTGGCGGCCGAGG  
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ATTGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAAATCTAACATATATTCATGCAATG



Table 4

TAGGTGTATCTCCATGCATGATTACAGCTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACA  
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GTTGCTTGCAGTACCTCGGCCGCCACCGCGGGGAGCGCGAATCAGTGGTGTGCTGCCCCCCC  
CATTGGCAGGGAACACCGATGGCCCATGCTTCTGGCCGTCCTTTTACACACAGGAAACAG  
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TAACCCAACTGCTGACTGCAAAACAGCCGTCAATTGTTTCATCTGATTTTGATGCGTGTCTCAT  
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NNNNNCCGGCACGGGGGGGAGGCACAGTGAGTCCACTGGGGGCACGGCAGCGTCT  
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NNNNN

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GCATGGTGGTGTGTGCCTGTAATCCAGCCACCTGGGAGGCTGAGGCAGGAGAAT  
TGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCGGAGATCGAGCCATTGCACTCCAGCCT  
GGGCGATGAGAGCAAACTCTGTCTCAAAAAAGAAAAAGTAAGAGTGGGGGGGATCATCTA  
TAATATCTAATTCTACCTTAGAACTTCTTTGGTGGTGGGGTGGGTTCTGGGAGTTTGACA

Table 4

GATTGTTAGGTTTTGGTATAAGGTCATAAAATCCTGTGCATATGGGATTTCTGACCATTGTC  
CTGCCTCTTGCAAATAGGTCTAATGGCAGGATGGTGTGATAATTAAGGCTACCAAGACTGC  
CCATTGTTCCAGGCTGGGCAGTTCATAATGGGGGCAGACAATAGTGCAAAAAAATTTTACA  
TTTTATCTTTAGAGTGTGAGGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGA  
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GTGTAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGA  
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CCTCCCCACCTAATAGGTTGCTACCTCAATTGCCATCTGCCACCAAGGCCCTGCCC  
AGTGCTAGGCAGATAGCCAAGTGGTAGGGGTGACATGACTCCACTAAAGCAGCAGCCCAAG  
GAAGTGAGGGGAGGGGACAGAGGCTGACCCTCCTCAAAGCCCCCTTGTGTAGTAGACCACTT  
CAACGCTGGGGTTTTGCTCATGGATCTGAGCTCTCAGCTCTGGTTCCAGGTTGCTTATGTGT  
ATGGAGCTCTTCTGGGGGAATAGGGCACAGCACAGGGGGGTTGCAAATACCAGGCAGAAG  
CCCACCAGTCCCACCTGCAGGGGTGCCCCAGCCAGGGGGCGGCGCTTCAGGAAGTCTTC



Table 4

TTCTCCAGAGTGTCCATGATCAGTGGTGGGATGGCCATGGCAGGAATCGCCATGCAGATTC  
TTGAAATCACCACCTGGAAGATTCCCTGCTTGGCTGCAGTCACCGAGTAGCCAAGCCTCTGA  
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TGATGCAGTTGGCAGCTGCCACTGCTGCAAAGGGGCACAAATCTGCCGACCAAGGGGGGCA  
GGTGCTTGGTGAGGGATTTGAGTCCCAGGGCCGTGGCCACAGCTCCAGTGGTGGCACTCA  
CATAGGCTGTCCCCAGCTGCCTCACAGTGATGGGAGTGTCAACCTGCGGTTGGAGTAGTT  
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CTCCACAGCTGGTCTCGGTGATCCCTGGGGTACCACGCCGGCCCTGTAGTTCTGCACGA  
TGTTCCGAGAAGCTTCCAGCTGTGCCCCGGACAGCAGCAGATTTGAGGATCAGTAACAGT  
GAAAAAGTGCCGGGCTCTGCCAGGAAAGTACTTTGGTCCCAGCGAGGTTCTGGATGTTG  
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CCTCTCTGCCTCCGCTGTGCGCGCCGGGCCCTCCAGCCATCACGCGGGACGTACGCGT  
GACGCCGACCAGCAGGGAGGGGACAGGAGCTTCCCGGCCGCGCCACCCGGTGGGCACGG  
GGATTGGCAGAACCACAGCCACCACACAGAGCACGCCTGCAGCAAACCTCAGGCTCACGTCC  
CGCTCTGCCCCGTGACGTCCCTCCACGGAGGCCTCAAGGGTGCCAGGGAGGGGTGGCAA  
TTCCAGGAGCCCCGGTAGCTGGCTCGGCTCAGAGAAGAGGTGGTTCGAGCCGGAGGGGAA  
CAAGCCAGACCCAAGCCCTAAATTTGCGGAATGAGCTAGGGCGTCAGAACCAGAACTGGGG  
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NNGTGCGCCATTGTGACCCGAGAATTTAATACTTGTGCCCCGCGCGTGTTTTGTTA  
ACCGTCCGCCCCGAGTGTCCCCTCAATTTCTACCCCTCGCCCCCTTAACCCAAAGCTAAATCCA  
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AATAAAACATTACTGTTTACAAAACAAAAGCACAAACATAATTATGGAATAAATAAAAAACAA  
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AGTTGGGTTTTAATGCAGCTTCAAATTAGGGTAAAGGGACTTGGTGAAATGTTTACATTAAAT  
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TGATGAGATGCTCACAGAAGAAAAAGGCCTGGCTTTGTACCAGGCTGGCGACAGGTGCTAC  
CAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTTGGCCCAGGCAATGTCAACG  
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CCCCTCCCAACCCCAACCCCAAGAGTGCAAGTCAAATCAACCAACAATTTACTGGTGGAATG  
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GCCAGGCCCTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTCCACCTCTTCTTCTCAGTCTCAA  
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Table 4

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CATTAAATGGCTTTCCACATACAAATACAATAGAAAAGAAAGAGTCTGGAACCTGACTATCAT  
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AAAATACAAGTCTATGCCCATAGAACN

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Table 4

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GCCAGTTACCAATCTACTGACAATGCATTTGAGAACCCTTTCTTTAAAGATTCTTTTGGTTCA  
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CTGTTGTGAGCACAGTTCTGAAGGGTTTATTATTGTCAAAATAAGTTTTGTTTTGTTTTGTTA  
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CACATCCAACGTTACCTTGAGGGGGGAAGAAGAGGGTGATGCTCAGAAGCTAAACAAGACAG  
GGGCCACATGACCCTCTATTGATTAGCCCCAAGTAGAAAGTCCTGTGGTTTTATGTTTAAATG  
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ACTTGAAATAGTACTTTAAATGTCCAAATACCTAAATGTGCTAAACTGGAGGTAACATTTTCTA  
GGTAGTTGAATTTTTGAAAGTCATGATCAGCCACACAACCTGTTTTGTACATACTTATTTTCTCA  
TGCACTTTTCTGTATGCAAATAAAGCTATAAATTTACTCATTTCATAAACTGGAGTGGCAGAA  
TAACAAAAGAAAATATAAATAATAAAAAAAAAGCGGCC

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NAGCGTACTCTGACAAAGACTTGTTTCTGTTGCATAGCAACTGAAGATAAGTATGC  
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CCTGAAGGGCAATTTCAACTAAGTATGGCGACTACCTGCTCACCATCTTTTGGAGACCGAAG  
AAGAAATGAATGGTCTGAACAGACTTAGCCCGACAGAGCTGCCCAATAGAGAGGATGCCAA  
TGTTAAATGACCACAAGAAATGTAACATCTTTTTAGGACACCCTAGATAAGAAATCTTCCA  
ACTGGTCCTTCAGGAGGGTGTCTAAGCAGTCTTGGATGAGCTACATCAACAGGTCTGCAGA  
CCACAGAGCCAGCAATCAGGGACCACATTTCCCGAGGTACAAAATTTAGAGGTTTCCCCTTT  
ATCAACAAGAGACCCAGGTGCCAGCATTTACTACCAGATCCAGTTCTTCTTAGGACAGTGT  
GGCTCAAAGGGATGAGACCTTCCAGACACTGGTATCTGAGCATCTGTGGCCTGCCCTGAG  
TTGTCAAGATAATTTCTTATCTCTGAAGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTG  
GGTGCTCGCCCCTCTTGCTCCTTAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCT  
TACACAGTTTATGGGACTTTTCTGTGAACTACCTGAGGGCAAGAACCATGTCCCACTCCCTC  
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TAAGTTCTAGCCCTATGAGGACAACACCTACTTTGATACCAGGCGTCACACTCTACAGCTNT  
GTTCAAGCTGAGGAGAGTTCTCTTCTTATCTGTGTGTTCTCAGAACACAGAGTGGGACT  
CCTGCCAAGTCACCCTTGACTTACN

Table 4

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NNNNNNNNNNNGCCGAGGTACGCGGGGAGAGAGGAAAAGAACACAGATCTCGCA  
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TCTTCTTGGATTCTGAGCCACATTGTCAGCCCCACTTATCCACAGCGTCTCATGTCTG  
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GGGCCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTC  
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TCCCTTACAGCTTCAAACACCGCCTCAGACACAACCAGGCCCCAGTCACGTGATGCCCTAT  
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ACAGTATGAGGAGCAGATACCATTCTATGCTCAATTTGGATACATTCCACAACCTAGCAGAAC  
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GCCTAAGGGAACCATAAGAAGTTGCCCTGATCATTAGACATTTTGGGAAAAAGATGTGGCC  
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ACCGCAGACTAACACGAAGAGAAACCCAAGTATAACATCAGATATGCGTGGACCAAAGCCC  
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AGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGGAAAACCTTACTTTTTTCAATGAGC  
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TCATGACCTAAGTGGTTAATATGGCCCAAATTCCTTTAAGCTCCTGCTTTAAGGTTTCATAA  
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CGGCCGCTCCACCGCGGTGAGCNNNN

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AGGGAGTCGACCCACGCGTCCGGAGCTGAATCACCAGAATGGGGAACCCACGGAG  
GTAGAAGATGGCACTGTGGATGGTGCAGACAGGGATGAAAAGGACTTCAGGAATCCTGGCC  
AGGAAGTCAGGAACTAGACCTGCCAGTGCTGTTCCCAAACAGACTTGGTAAAGACTCCCTTG  
GCTCTGATGGTCAAAGGATGGCAAAGTCCACTTTAGAGGCCATTAGCCTAGCAGTTGAGTAG

Table 4

GAGCTGTCACTGATCCTGGCATCATCATCTTGATGTGTGACCCTATCCAAGTTTTGTTTT  
TCATGGAGTTAAAGGTTATTCCCCTTGCAATTTACAGCCCTGATTTTGCATTTGCCAACCTCT  
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CAAACACTATAAACAATTTATAAACATTACTAATTTCTGATGAAAATAAAGTTGTTTCTCCCT  
CCACAAANNNNNNNNNNNNNNN

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NNACCCACGCGTCCGGATTAATCTATTTGCCTAAATGGGTTTTGTTTCAGGTATCCATT  
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ATACAGGTGCTCAATAGTCAGGCTTGATAGTGATGTCAGGACGCATTACAAGCTGTAAGCCG  
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Table 4

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Table 4

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Table 4

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GCCCGGGCGGCCGCCCGGGCGGCCGCTCN

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NNN

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Table 4

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Table 4

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AAGGAAGAAATATATGTGAAAGGCTTTTATAAACAGAAAGCACTATACACACATATCACTTA  
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CTTCTCCATAGAGGAGGGAAATATTGAAGAAAAATAAGCCATGGAGTTGTCTCTTAGCAAC  
TGAGTTTCGTGCCTTATAAATCTCATCTACTTTAGATTACTGCTGCACAAAATCACTTGCTTTTC  
TTATTGGCTCAGTATAAATAATGTTATTAATATAGGAAAACAATGGAAAAATCTAAAAAAA  
AAAAAAAACCTCGAGACTAGCNN

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NNNNNNNNNNNNNCGANAAATCTTCTAGAATTAATTGAACGGGGGGGACCCATTCC  
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TATACTGCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGGGTGT  
CTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAAGCTTAATT  
CCATTTGATCAGATGACCATTGAGGACTTGAATGAAGCTTTCCAGAAACCAATTAGACAA

### Table 4

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CCCAAATAGCACATGGGCAATTGGCACCATCTTTATATGGTTGAGTCTCCTGAATATTTTGAA  
TGAATTCTCAACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAA  
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CGTGTTAGATTAGAAGTCCTGATGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACC  
TGAGGATTTCTAGCCAGAGGTCCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCG  
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GCGCTTCATGTTTTCTCTGACTCATGGATCTGGTAGAGACCATAGACATGATATAGACTAACT  
TCCCCATTTTTCAACAAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTTG  
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CTTAAGAGGCCACACTATTCGCGGAATGGCTTTAGAGGCAGATGAAGTGGTCTTTGACCACA  
GTTGATTGAACCAGAGCACTTATTGCTTAAAGAATAACAGAGTTCTAGAGCTGGGGGTTCTT  
GGGCCATGCTCCGTGTGTGGATAAGGAAAGAAATACTGTTTCTGGGACTCTCCACAGTCA  
CAAAGCTGTTTTCACTGTGGCCCTACATCTCTTAACTTTTGCTATTACTCCTATGCTGCCTT  
CCGGATTACTGCTGTCTATCTTCTTGCTCCACTCACTGAAGATCCTATTATAATCCCATGAAA  
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CAAGAAACCTTGGGCCACCGCTTTGTACATAGCACCGTGCTAGGCTCTGGGATCCCAAATG  
GACCTTTTAACTTTCTGAAGATGGGACCGTCCCCTGGAGGAAAGTCATTCTGCCTAATCC  
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TGACATGACTTGGCTTTCTCATCCAGAAATFATGGAACAGGGTCTGTCAGTGGCAGGAGGC  
CGTGCTGTGTTTTACTTGGATGACACAATGCAGTTTACTTGCCTCTTCATACCCATGCATGCT  
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GAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTTCTCATTAAATCCAATGCTGTGTC  
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NNNNNNNNNNNCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGG  
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AGCACAGCTTCAACAAAACTTTGCATACCCCGCGTNNNNNNNNNNNNNNNNNNNNNNNG  
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NNCGTCCGCCCGTCTGAAGCCGGCTGTCCGTCTCCGTGTCGCCGCCGCCGCCGCCG  
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CGCCCCCTCGAGCACGAAACGGAGAGATGCAAGCTGTGGAGTGAGACCTTCGATGTGTG  
CGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGGCGATCTTTGAGCTTTCCC  
AAGGAGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAGGCCTATCATGACCCCATG  
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Table 4

ATTCCTCTACATGAAGAGCTCCTTAGTCAGCTTCGAGATGTTAGGAAGCCTGATGGCTCGAC  
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GGATTTCTACAGCGATGTTTAGAATCCCCCTTTAGCCGCAAAGTCTCTGGAATTTCTT  
CGATATTCCAAGAAGCCGCTGGTAAATACCCTCTGCTTCTCCGAGAAATCTTGAGGCACA  
CACCAAATGATAATCCAGATCAGCAGCACTTGAAGAAGCTATAAATATCATTGAGGGAATT  
GTGGCAGAAATCAACACCAAGACTGGTGAATCTGAATGCCGCTATTATAAAGAGCGGCTTCT  
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ACCTTCAGCGACGAGGGCAATCTCCGAGAGGTAACATATCCCGAAGCACAGGGGAAAACG  
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Table 4

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TCACCTTCTGTGCCAGCCAAATACGTGGAAGACAAAGAGAAGATGCTGTCTCGAACAATGCA  
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TGGGCTACGGTATCCGGAAGCTACAGATTCAAGTGTGTGGTGGAGGACGACAAGGTGGGGA  
CAGACTTGCTGGAGGAGGAGATCACCAGTTTGAGGAGCACGTGCAGAGTGTGATATCGC  
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GACGCCGCCCTGCGTGCCAGGAAGCTGCGGAGCAACCTGCGCCAGCTCACGCTTACCGCC  
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CGTGCTGCCGGCCAACCTCGGGGACATTGAGGCACTGAACCTGGGGAACAACGGCCTGGA



Table 4

GGAGGTACCCGAGGGGCTGGGGTCTGGCGCTGGGCAGCCTGCGCGTCTGCTGCTGCGCA  
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CAAGGCGGAGGGGGGAAAGCTCCCCGCCCATGGCGCGGTCCACCCCCAGCCAGGAAGTGC  
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### Table 4

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GCTGTCTATGCAAGAAATCCGTTTTCTTTTACGACCTGGAAAGACACAGCAGCCCACCG  
AGGCGATAGGTGATTCATAAGCACAAAGAGGAATGTTTTCTAAGCAAGGCGTCCCTTGCCCTC  
TCAAACAAATGCCCTCCAAGTTTGTTAGGGTTTCTATTCCTGCAACTTGGGTATCAAAACCA  
CTTCTGGAATTGTCAAAGCACTGCCAAAATAAATGTTTTTCCCTTCTAAGAAAAA AAAA  
TGACAGTGCTCATATTTGACACTTGTGTATTGGAGCTCTCTTTGAATGAATAAAAGGAAAAAG  
GGGTTTGGTGTAAATTCCTGATGGGGTGCCTGTTGTTTTTCATGCCATGGTTTGTGAATTTAA  
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CAAAAGAAATGGTTAAANNN

**>428**

**.>429**

NNCGCCGCCGACGCGGGGGGAGGCGTCGGCCACGTTTCAGCGGACACGGGAGCAA  
 GATGGCGATTCCGGGCAGGCAGTATGGGCTTATTTGCCAAAGAAAACACAGCAGTTGCAC  
 CCTGTTTTGCAAAAACCATCAGTGTGGGAATGATTCTGATGATGATGATGAGACCTCTGTG  
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 AGAAAATACAGAGAGAACGAGAAATGGAAAAGGGGGAGTTTGATGATAAAGAAGCATTGTG  
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 GAATTACCCCGAGACCACTGCTTGCTTCCAACCTGGCTGTGCACGTTGAGGAAAAACCCGGAT  
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 GGAAGCGCGCAGGGGCACAGGGCCTTAGAACACCCCGGAAGATGCTCACGCACACACGGAGA  
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Table 4

CGCAGGCAGAGAAGGCGGAGCGGAGCCCAAGAGCGCACAGCAGCCACCAACCGTGCGGA  
AAGCAGCAGAAGCGACAGCACACGGGACACAAAGCGACAGCCGTGCGAGGANNNNNNN  
>430

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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
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Table 4

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TCTTGCTGAGAGACTTATTTATAATANN

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NNNNAGGTGACACTATAGAAGAGCTATGACGTGCGATGCACGCGTACGTAAGCTTG  
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Table 4

GCCCCGGGAGCGGCTAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGG  
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NNGAGTCGACCCACGCGTCTGTTTTTTTTTTGCTGATAAGAATTCTTTTATGTTATT  
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NN

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ACCCAAGTCAGAGAGCTCTGCCATTAGGACGGGCAGAAACCGTCAAGATTCATACTGCTGTT  
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CCCGTGGTGGTGGATCCTGGAGTTCTCTCACGCAGGAGCCAGCGCTCTCCTAGAGGGGGT  
CTCAGATCCTGCGAGGCCAGTTCTTGGAGGGACATGACTAATGAGTCGATCTTTACTCAAT  
TTTTATCAGTTTTATTTATAAGCCTGATTTATGACTGTATTTAATGTTAATAGTGTGCACA  
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gGAGTCGACCCACGCGTCCGGTGGCTTCTGCGGCGTTTCCACTCTCGCTCTCCTG



Table 4

GCGTTGCCTGATCGCCGCCCATCATGGGTGCGATGCATGCTCCCGGGTGAGCTCGGGGCA  
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GAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCAAGAAGGGCCTTACT  
CCTTCACAGATCGGTGTAATCCTGAGAGATTACATGGTGTTCACAAGTACGTTTTGTGAC  
AGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCT  
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CAGCATGATGGATACGCTTGGACAAGCGCTCATTGTTGACGGTGGACCAAACTCCGGAAT  
GGTTTCACTCCGCAGGGCGTGGGAACAACAGGCACGATTAGACAATCGCAACAGGCGCG  
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CTCATTCAATTGGGATCTGTGGAAGAAGCAATTCAGGCCCTCATTGAGCTTCATAACCATGA  
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Table 4

ATTTTCTCCTAAAACCTGGACCATAATTTTCAGTAAAACCTTCAGACATAGACTGAAGCAGCTC  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

CTCCCAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACATAAGTTCAGAG  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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 CTACTGAAGCGAGAAGACTTATAACCACCGCGTCTCCTCCTCCACCACCTCATCCCCGCCAC  
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tGGCGgccgcCCGGGCAGGTACGCGGGAGTGTGgattgAACAGAAAATTGGAATCATa  
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 CTCTCATTCAATAAAGAAAACGCGACATCTTTCTAAGATTCTCTGTGGGAAAATGACTGTCA  
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 AAAAAA

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Table 4

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CCATTGACAAAAAAGCCCCGGACTTCGTCTTCTATGCTCCCCGGCTGCGGATTAACAAGCG  
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CGTGCTATGCTGGAAAATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAAGA  
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Table 4

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NNNNN

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Table 4

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Table 4

TGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCTGAATCCAGCGCTGGGTATGCCA  
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>495

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Table 4

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Table 4

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Table 4

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TCACAAGGATGGGTGCTGCAGACAATATATATAAAGGACGGAGTACATTTATGGAAGAACTG  
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CAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGTGGACAGACTTAGC  
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CGTATATTTTACACCTCGAAATAAAAAATGTGAATACTGGCCAGACAAAAAACAAAAAACCC  
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Table 4

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Table 4

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CAATGTGCTCCTGCAATTACATTAATTCCTGCAGCTAGCTGCGTTCTTCATCGACGCACGAG  
CCGAGTGATCCACCGCTAAGAGTCCCCCTTCTGTGCTCTTCTCGCAGCCGTACCACACGGC  
GGCGTCCCGAGACNAAGGGNTTCGATGGACAAGAGACCCAAGCATAGAANNNNN

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NACGCGGGGAAGTGAGAGGAACCGAGAGTAAGAGAAAGAAAGAAGTGAGGGGATG  
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GGCTTCAGATTGTAAGTACGATCTGAGGAAAAATGAGGTTTGTGTGATTTTGCTAAATGCA  
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CATTTTACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCCTGGGGGAATGGAGGAC  
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CGTGATTCCTCAGACACAAAGATTTCTCTGCTGAGTAAGCGTGAGGCCCTTAACTTGT  
GAAAGCATCATCCAGACCGTGTGAGTCTGTCTGTGTATGTGCAGAACACAGACCCTCCTTTC  
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CAAGCAGAGTCTCCTTGGAGGTGACATGGATATGGGCAACCCAGGAACCCCTTTCGCCACC  
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TAGTGCCATGGAGGTACAGACAAAGAAAGTTGAAAAAGTTCTCCAGGTTTGCCATCTTCAG  
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Table 4

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CTTGCTTCGCAAAGCCGAATTGAAGATCGTTTAGAAAGACTGGATGATGCTATTCATGTTCTC  
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TCATTGGACCTTCTCATAATGGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGGCCT  
TCTTTCAGCCAACAGACATTCACTCATGGTGGGGACCCATCGTGAAGATGGCGTGGCCCTG  
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GACTTCCCCTGACCTGAACCCACCCAGGACCTTACAGAGGCATGCCACCAGGACTACAG  
GGGCAGAGTGTCTCCTCTGGCAGCTCTGAGATCAAATCCGATNACGAGGGTGATGAGAACC  
TGCAAGACACGAAATCTTCGGAGGACAAGAAATTAGATGACGACAAGNAGGATATCAAATCA  
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GAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGAT  
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GATTCTCCAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCATATATGCAA  
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TGACAATTGCTAGCAAACACCATCAGATTGTGAAAATGGACCTGAGAAGTCGGTATCTGGAC  
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CTCTACAGGAAAGAAGCCTGGACTAGATATAAATATGGATTCAAGGATCATTGATGAAAACAT  
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CAACTAGGAATTGCACAATATAAGCTTGAAACGAAATTCAAAAGTGGTTGAAATGGGAGCAT  
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TGCATACCCAACAAGAGAATGAATTATTTTAAAGATTAGAGATAAATAAGACGTGCGTGGTTT  
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CTTCCGTCTGTAACTTGATTTTCAAGAATCCTTGGTATTGAATTTTGAAGTGTGCTACATA  
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CGGGAAGACACCGGGAACCAACCAACGTGCAACCACCAAGGCCTCCACGGGGGGCGCC  
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NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
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GCTCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTGCTTGTATC  
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Table 4

GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
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CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
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CAGTTAAGGAACAGGGTCTGTTCCACAAAAAGACAGTGCCATCAAGGCTGTGTTTCAAAA  
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GGAATAGCTAGTATTGGGTTTTCTAGTTTTTACCTTTTATGTTTTACTCTAATTTGTAAACCA  
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Table 4

TATATTTAATTAAGCCTTACTGAAGAATAAGAAATGAGCTTAGAATGACTAGTGTTCTTTGAA  
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TCGAACCTCTGACCTTGTGATCCGCATGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCAT  
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GAAGAAAGGTCCTAAAGGGAGAAATGACATGTTTTCTATTTTCTTTTCATGAAAACACTGTT  
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TCAGTTAAATATTTTGACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATC  
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AACGCAGCCCCAGGCTGGGCCTGTTTTCCATGAAGCCCAAGGCAGTGATCTTCATCATTA  
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TCAGCAGTGTCCCAAAACCCGTGGTAGTGTCCATAGTACAGGTTATCCCAATGTCTTCCAC  
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Table 4

CTGGCTACTCGGAAACGGCTGTCCTGGGGCTAATCCACTGCTAATTCGGTTAGTTCCTGTCA  
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GAGCAGTTTAACGAATTCGGGATCTGAACAAGGACGGGAAGTTAGACAAAGATGAGATTC  
GCCACTGGATCCTCCCTCAAGATTATGATCATGCACAGGCTGAGGCCAGGCATCTGGTATAT  
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Table 4

GATTTCTCTCAAAACACGTGAAAACCTTGGTAAATTGCAATTCCTTCTGGGGATATATTGGTA  
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>542

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Table 4

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Table 4

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&gt;543

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Table 4

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&gt;554

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&gt;555

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Table 4

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>561

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Table 4

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&gt;566

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GAGCCAATCTTCAGTCAGTACCGCATGCCATCAGCCTCACGCCCCGGGTCACTGAGCCAAT  
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GACCCACGCGTCCGCTCCCGTGTGCTCGCTTTCTGTCAGCCTCTCTCCCTCTCCC  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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GAAGGATATTGAACAGAGTATTAATCTGAAACATCTGGTAGCTTTGAAGATGCTCTGCTGG  
CTATAGTAAAGTGCATGAGGAACAAATCTGCATATTTTGTGAAAAGCTCTATAAATCGATGA  
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AGGGTGACACATCTGGAGACTACAGGAAAGTACTGCTTGTCTCTGTGGAGGAGATGATTAA  
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Table 4

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CAGCTCAGTGACAAGGTTACAATGATGCTCAGAGTTTGTATTGACCATGATGCCTTCTTG  
GGTGCTGAAGAAGCAAAGACCTTTGATCAGCTGACACCAGAAGAGAGCAAGGAAAGGCTTG  
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Table 4

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GTTCTTTATAGAAAGTTTAGGAAATAGAGAAAAAATTTAATAAACTACATCTATTCATCAATA  
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Table 4

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TGTGTCTCTGCGTGGAGCTGACTCTGGACCTGACACAGGCCTACCCAGCCTGATCCTCT  
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Table 4

GTCTCATAGCACATCAGAGATTTACACAGGAAAGACGCCCTTTGTGTGCAGCGAATGTGGA  
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GCGGGGGAGCTCCAGACGGCCGCGCGCGGCGGCGGCGGCTCCAGCTCCGGCCC  
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CTCAAATTAGAGACAATCTTATTGCTGTCTATTGGAGCAGCATCGTGGCAGATCAGCAGGCA  
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Table 4

CTCTGTATTTATAATCTTTTATATGTCCTATTGTGGCTATTATGCTTAAGTAAAATAGCTAAAG  
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CTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGGGTGTAAG  
ATCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCCC  
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AGCAGATTTGCCTGGTCATGCTGGAGACGCTCTCCAGTCTCCGCAAGGGAGAGTCATGAC  
CATTCCGTACCAGCCCATGCCGGCCAGCTCCCAGTCATCTGCGCGGGCGGCCAAGATCG  
GTGCAGCGACGCTGCGGGCTACCCCATGCCACCCATGACCTGGAGGGACCACCTCTAGA  
TGCCCTACTCGATTCAAGGACAACACACCATTCTCCGCTCGATCTGGCCAAGCTGAACCAGG  
TGGCAAGACAACAGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTCCCGGAATTGA  
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ATGAACTCACCATTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAAGGCG  
CCAACATTAATGAGATCCGCCAGATGTCCGGGGCCAGATCAAAATTGCCAACCCAGTGGA  
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Table 4

AGTCTTTACTGCCAATAAGTGATGCTGCCTCCAAAGGAACAGCTCTACAGAAAGTTTTTGGG  
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caccactctgtggcatttcagggttaattcttaataactcttctgttgaatccaagtctaaacactgtccacatatgattctgcacaatct  
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>603

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Table 4

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 TATAGTGTTTACAAAGCTTAGACCTTTACCTTCCAGCCACCCACAGTGCTTGATATTTTCAG  
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 TGTTTCAACAAAACCTCGAAACAAAATGGAAGAAAATAATCTACAGTGCAGTAGTGTGGTTGA  
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 AGCGGTACCAGTTCGTTAAAAATTTAGTGGATCAACATGAGCCTAAGAAGGTTGCAGACCTG  
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Table 4

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Table 4

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 CTTTCGCCTCCGCCTGTGGATGCTGCGCCTCTCCGAACGCAACATGAAGGTGCTCCTTGCC  
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Table 4

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CAAGCGCGTGGGCAACTACCTCATCGGCAGCAGGAAGCTGGGCGAGGGCTCCTTTGCCAA  
GGTGCGCGAGGGGCTGCACGTGCTGACCGGGGAGAAGGTGGCCATAAAAGTCATTGATAA  
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CAGATGATCCGCCACCCCAATATCACTCAGCTCCTTGATATTTAGAAACGGAAAACAGCTA  
CTACCTGGTCATGGAGCTGTGCCCTGGGGGCAACCTGATGCACAAGATCTATGAGAAGAAG  
CGGCTGGAGGAGTCCGAAGCCCGCAGATACATCCGACAGCTCATCTCTGCCGTAGAGCAC  
CTGCACCGGGCCGGGGTGGTCCACAGAGACTTGAAGATAGAGAATTTGCTACTAGATGAAG  
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GATCCGTTTCAGCACACAGTGTGGCAGCCCTGCCTACGCTGCACCTGAACTGCTCGCCAGGA  
AGAAATACGGCCCCAAAATCGATGTCTGGTCCATAGGTGTGAACATGTATGCCATGTTGACC  
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CGCCAGGACCCCGAGGATTGTGAAGAAACCGGAGCCCCATCAGCCAGGGCCCCGGAAGCA  
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GGATCGCGACGACCACGTAGAAAGTGCTGTCTCCCTCTCATCACTACAGGATTCTGAACTCCC  
CGGTCAGCTTGGCTCGCAGAAATTCAGCGAGAGGACGCTGTCCCCGGGTCTGCCATCCG  
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CATCGGACAGATGTTAAGGAAGCGCCATCAGAGTCTGCAGCCATCTGCAGATAGGCCCTG  
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TGTTGAAACATGCTAATGATTGAATTATCTTTTCAAAGATTTTTTTAAATGTGATGTCGGTA  
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Table 4

GCTGTGGCCACAGGCAGGGCAAGTCTCGGTGGCCCTGTGTTTCATCCTGTTGTTTAAGGCA  
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GAGCTGGGAGCAGGCTTGCCTGGCAGAGAACCTGTTTCAGATACAGGCCAGTTTCTTCTCG  
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CAGAAAAAGAAGACCCATCAGCACAGGTTGGATAGGGGTTAGTGTAGGAGACCAGTTACAG  
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TCTAGGGCATTCTAGGATGAGGTCAGACCCCTTGGCCATTGGTGTTATTTTTGTATAGCTTC  
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CCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGCTTGAGCTCAGGAGTTTCA  
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CTGAAGTTCCTGCAGGGACTAGGTCTTGCAATTTTAAAGTCCTTTTCAAACTGTGCAGCTTCC  
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ACTCTGTCTTTCTCAGTTGACTTCCCAAGTAAGCAGCAAAACCCTGGATAGCCTTGTTATCTA  
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Table 4

GAAGCCTGTTGGTTAGTGTATTTATTTTCTTTGTGGGGTCTTCTGTGAGCTACAGGCACAGTA  
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GACNNNN

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GCTGCTAATATGCATACCTCTTACTTGAAGGTTTTTAATATGTTTTGATAACTTTAATAACTTC  
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ATTAACGGCGTCTTG

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTTATATTTTTTTTTTTTACAT  
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CCACTAACTGTACAAAATATTGACTGCATGCCTCGCAAACACCAAATATCCGCTGGAATGC  
CATAGAAATAAATAACTTCTGCTATAAACACATGAAAACATATCAAACCTGTTATCTCTTTAAAC  
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ACAGGGTTTAATTTAAACACATACAATGTCCACCCCCAAACCTTCTGCCACATCTACAAGTT  
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AACTCAGTGTGCTGAAATTCACCTGACTTTTTTGGAAAAATAGTCGAAATGTCAATTTGGT  
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CCAACCTTCAACAAGTGTGTAATAATAGGGCTCTGGATTTTCAAAGCACATACATGAATAAT  
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Table 4

TGTACTTTGATATTTATAAAACAAAGGTGTTTTTTTTTCATTTCTGCATCTGAATCAATACAAAT  
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TTATCATCCTGTTTTCCCCACAGGGGATAACTTGTAGAAGTGGGAGGGGCACAAAAAAGAGG  
AGGAAATTTTCGGACGCGTGGGTCTGACTCCCTATAGTAGN

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NNAAGAATTCGGCACGAGGGCGCCTTCTCCTCCAACCTTCAATGAATGGTACGTGTG  
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GCTAGCAGCGAGGGCACCTTGTGATCATGTTGTTAAAATTATGAATCTGATTTTTATGATGAT  
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NNGCAGACAGTGAAGTTCGATGCTAAGAGCAGTGCGGATGATGTAATAGAAGAACT  
AGAGTGAAGTGCAGAAGGGGAAAAGGTCTATAGAGACCCCTGAGAATGACTTCAAGCACCACA  
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Table 4

AGCACAGAAAACCTGTAATTCCTGGAACCTGCTGCGTAAAACCATAAAGGAGTGTGTTACCAG  
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TTTGCTCCACTACAACCATTAAAAAATAATTTTGGCCAGATACGGTAGCTCGTGCCTGTAATA  
CCAACATTTTGGGAGGCCAAGGGCAGAAGGATATTGAGGGCTAGGCATTCAAGACCAGCCT  
AGGGCAGGATAATAAGACCTTGTCTCTATTTAAAAAACAAAAAGCCTAGCATGGTAGTCCAT  
GCCTGTAGTCCCAGCTGN

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GTCGACCCACGCGTCCGGGCGGGCTTCCGTAGCGGGAGGGCGAAAGATGGCGGCG  
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CCCCTCCGAGCGCCGCACAACCAAAACACCACAGCCCCAACCAACN

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Table 4

GACCTGAGTGCATTTCCCACCATTGTCCTTTCCACATTATGTTGTAGCTGGCTGGCTGTCAG  
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CCACAAAATGGTCCCTGGTGCCAAAAATGTTGGGGACCACTGCTCTAGAGAGAGGTCATG  
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Table 4

GATAACTTAAAAATGAAAAAATTTCAATTTACACATATTATTTTAAAAATAGTACATTCTAATTT  
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TTCAACTTGAAAAGAAGATGCAGGTTGAGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGC  
TCTCCCGTGGACTTACTTTGACAATGTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTG  
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CCTGCAGAGGTATAAACTGATTGTGCACACCCCTGGTATTCCCCAGCCATGGGCATGGT  
CCCAGAATATAAAGTATGATGGAAGGGCTTCCAGGAACTGGCACCGATGGTCCCCATGGC  
ATTGAGCCAAAGAGATGAGACGACGAAGGCATTATATTAGCTGTTGGTGGGGCCAAGGAAA  
ATTTTTCTTTTAGTATAATGGTATCATCAAAGCTCTGAAATTTGAGACCTCCTTCTGCTAGCCT  
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GGAATTTATCATTATACTGGGCCTGAAAAGGGAGGAATACTACTACTTAATATCATATGCTGA  
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AAGTAGTTGTATATTTTAACTTCAAATTTGGGATTTCCCAATGTGACACATCATGAATGCAAA  
CCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTATAGTATATAAACATG  
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AGAAACTTATCTGTGAACCTTTACTATATATCTGTTTTACTTTATTTTTTTTTTAAATAAAA  
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TGA

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ATCAG

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Table 4

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TGCTCCAGAAGAAAGTCGAAAGAAGATTAACCTCTGGGTGGAAAGTCAAACGAATGAAAAA  
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GCGTCCGGGCAAAGCATCTTTGGTGAGCGAGGAAGAGGAAGATGAAGAAGAAGAT  
AAGGCTACCCCTAGAAGAAGCAGGTCTAGAAGAAGTAGTATGGTCTTCGAGTAGCCTTTAG  
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Table 4

GAGGCCTTACAGAGTGCTAGCCTCTTCCTTCAGGACTCACCTGGGGCCTGCTGCTTTTATAT  
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AGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAA  
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TCATACACATTACCAATGCTAGAGGACCATATGGCCAGGACTGGCCTTGCTACAGTGCCTA  
ACTATTGGGATAATCCAATGGTTGTGTGCAGAGAGAACAGCGACACAAGAGTCTTCCAGCTT  
TTACCACCTTGTGAATTCTATGTATTTATTATTCCTTTGAAATGGAAGGGGACACAACAGAG  
ATACCCGGGGGTCTTCCATCTGTATATCAGAAAGCACTGGGTCAAAGAGAACAGAAGATACA  
GATCTGGCAGAAAAGTGTGAAGGAGGCTCATTTGACAAAGGATCAAAGGAAGCAGTTCCAG  
GTACTGGTAGAGAACAGTTTTATGAATGGTTGATTAATACAGGACATCGCCAACAGCTGGA



Table 4

CAGCCTTGTACCCCTGCAGCAGGCTCCAAACAAGCAGCTGGATAAGGATCTTACATGCAG  
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GCCGCCCGGGCAGGTACTTGTTAAGCCACATTTGAGGTTTATGGTAAAAATCATCTT  
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CAACTTGAGAAACCCAAACCTGTAAAACCAAGTGACGTTTTCCACAGGCATCAAAATGGGTCA  
ACATATTTCACTGGCACCTATTCACAAGCTTGAAGAAGCTCTGTATGAATACCAGCCACTGCA  
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ACCATGTCAGAGCTGCCTCACCACAGGACCTTGCTGGAGGCTATACTTCTTCTTCTGCTTGT  
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CTATGTTGAGCTGCACAACACAGTCCTTCCACTAGCAGCTGTGTTAAAGTATTTATAAGGAG  
AAAATTCAGAACTAAGTTGAGTAATATAGGGGATATATATTTGTAAAAATAATTTTTACTTA  
TATTTTTCAGAGGATTTGACACGATAAGCCTCATCTGATGGAAGAGAGGAATAAATAATTCAC  
CTATATGTGTTTGAAGTTGTGACAGACTTATAAAATCTTTTTAAAAAATAAAGCTATAATTTATA  
TTAAGTTCTGTGGTTTTTCTCTTATTACAGTGTTTTACTTGAACACATTTTAAATACCATTTGA  
TTACAACATTTACTGTTAATANNGNNGNNNN

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TCACTAAAGGGAATAAGCTTGCGGCCGCAGTTTTTTTTTTTTTTTTTGCAGTTTTTG  
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GCAGTACGCACAGGTGTGGTGTAGCCAGGGAGACCGAAGCCACACAGAAGGGGAGTCAG  
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Table 4

CATTGCTTTGGATGCAGGTTCTTACTAATTTATATACACATGTAAAGAGAAGATACTGAAGTG  
TCTAACTGTAATTTAGCAGCAGAAAAAGAAAAGTCTTAACATATTTGCTTCTTAATCAAGTTG  
TGTTTAAAGAAATGCATTAATACTCCTATGAATTTGTATCATTGATAGTGTATCTGGATAATCC  
CAGTAACTACAGACAGAGACCTTGTGGTATGGAGGTTGCTAAATGAGGGGAACACTAATTC  
CCCAGAGATAACATCTGAGCTGCTTTAGACTCTGGAAGTGGTTTTTCAGTACCTGCCCCGCTG  
TAACTCTGAAAACACGAACATGATTTCCAACCAAATCTTTGTGCTCAGAGCCATATTGCTAA  
AAAGAAAAAGGCATTGCAGAGGCAAAGTGGACATGGGGTTAATTAACAAGGCCTCTGAATT  
CAGGTGTGGCATTAGATCCTGCAATGAATGGACCTATTTTACAGAAGTCAGCGGCAAATCT  
TTTGTATTTTTTGGTACAGATGGGGTTTTGCCATGTGGACCAGGCTGCTCTCGAACTCCTGG  
CCTCAAGTGATGCACCTGCCTTGGCCTCCCGAAGTGCTGGGATTATAGGAGTGAGCCACCA  
CGCCCGGCTACGAGTTGGGTTTTAACAGAAGAGGACCTTGAATGCTGAAGCTTCACAGGGC  
GGCCAACTAACCCTCGN

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NNNNNCCTGATGTGGTGTCTGCCCACATATGTATGTTGACATAGTTCATAGTACTG  
CGCCGGTACTGCCAGTTAGACTCCACAGACCTAATTTGGATGGGGAGAAAACTCTCATGC  
CTGACCCTTCCCCCCCCGCCAATGTTAGACCAGAGCTGTTGATCCACACAGTCATTGTTCT  
GAAAATTCATGAACATTTCTCTCATATCCCTGAAATATCAAAGTAAGTGGCCCCATTCTAC  
AGATTATTTAGTTTATAAAGCTTTGCTTTTAAATCATACCATAGCTTACCTGGCTAAAACCTTGC  
GTATAAAGGGGAACTTGCTTTAATCTGTGGGATTGCGGACCCGATGCGACTTGCAGAAGG  
TAAACCGGCGTGGGTTTTGTGTGCGTTAGGTAAAGGTGTTAGTGGACTTTTAAATGTATCTGT  
GAAGTATGGTTACTAGGGTAGGTTCAAGAGCTACATGCCTCTGGCTTTTGAACCCATCTATT  
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ATGTTATTGTTTTAGTTTTGTGATTTTGTGAATAATTGAAGTTCAGAGTCACCCGTGGCTCCT  
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GCCCGTTCTCACATGCCCCCTTATGCTTTATTTCTGGGAACATGTCACTAGACCTCAGCTAG  
CCTGACACCGCAATAACCCGTTAGGCTTTGAGGCTTTTCAAGTGAATTTCTTGACATTTAAATCT  
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GCATCTGCCATCCTTCATTGGATTTTTGTTTTGGTTGTTGTTGCCATTCTAGCAATGAGCTTA  
GTCCTTGATACATCTGCATTAAGGTGCCGATGCAGAAGGCAAATTGAAACACGCGCCAGCG  
GCAGTGGGGCTCAAAGCCGACCTCCATGCATCATTCTCTAGAGTTGAAAGGATTGACATTTCT  
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TCTATAGAAAGATTACTTGCAAGTGTGTCTTGAAAATAACCTCTTGATTTGTGTGTTTATG  
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1ATAGGGAGTCGACCCACGCGTCCGGGTTTCGGTTGGAGGACTCGTTGGGGAGGTG  
GCCTGCGCTTGTAGAGACTGCATCCCCGAGACGATGGCGGAGGGAGATAATCGCAGCACC  
AACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGCAAGGATGGGGAGAAGTG

### Table 4

[illegible]

NNNGGACCGCCCTTTGCCCCCTTTGAACNCCCTTTNGNTCGGGACGCGCGCCATTG  
TGTTGGTACCCGGGAATTCGGCCATTATGGCCGGGGGCGGGTAAACAGACATGGCCGGCG.  
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AGAGTGAGGAAGAAGATGAAATGGAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAAACC  
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TACAGGAAAGGGAAGCACAGTTTGGAAACAACAGCAGAGATATATGCCTATCGAGAAGAACA  
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AGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAAATTCCTCCCGAATGTGTG  
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AAACCTGTCTCAAGAGAAGACCAATGTTCATATAAATGGTGGCAGAAATACCAGAAAGAGAAA  
GTTTCATTGTGCAATCTAACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGAC  
CTTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCT

Table 4

TCCTTCAAATCCAATAGATTTTTCTTACAGAGTAGCTGCTTGTCTTCCTATTGATGATGTATTG  
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TTTGGAAATGATGAGATTATTTCTGTGTTAAAAAATAAATCTTAAATCCTACAATGTGAA  
ACTGAAACTAATAATTTGATCCTGATGTATGGGACAGGTATCTGTCCAGTGCTCTAAATAACA  
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GCTAGAAACN

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CAAGGAAGTACTGACACTACACTTTTGTTCATAGAGGCTGAGTAGATTACCTAGTGAGT  
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Table 4

GAACTTTCTCTTGTCAACAAGAACAAGTCATCGGCTATTGTGGAAATATTCTCCAAAACACCG  
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CCAAGAAGAACAATCCACCCAGATCTAGACTCAGGTCACCTCCTGAAGCCCTCGTTTCAG  
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GCGGCCGCCCGGGCAGGTACGCGGGGACGTGACATGGGTTGGAAGATGGCGTCT  
CCCACAGACGGGACAGATCTGGAAGCATCTTTGCTAAGTTTTGAAAACTTGACCGTGCCTC  
ACCAGATCTTTGGCCAGAACCAATTACCAGGTGTTGCTGAATTTGCAGCTTCCTTCAAAGTC  
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TCTAGAGAAGCCCAAGAAGTAGCAGCTGCTTGCGGACAGGATGTCCTGGGGTCCGAAACCA  
AGCTCCCTTCCCGGTGCACCTCTAACAATGCACACCTCACTGCTTGCTTGGGAGAGGCCAG  
AGGGTGTACCTCCAGGACTGCCCTACTCCCCTGCTCCTGGCCACTCTACACGTCTGAGGAC  
ATTCAGCAGCAACGAGCAACGCAATCTGCTCTACCCAAGGATCATTGCAGTCACTCAATCAA  
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CCTTACCGCACGCATTGCACTCAGCCATGGCAATCACTCGCGACCCGACGACGGATACATC  
CCACAGCATTGGCCTGGAACCTCATAGCAAACGGCCACCATGTTGAGGAAACCCGAAACCA  
GATTGCATTGCGAACCTATCCCTGCGACCGTACATGGTGAACACCTCCGGATGCTAATCAG  
GTTCCCGCATCCCCCTGTACGCAACCCGAACATGTGCGCAAGAGCATATCGGTGTCAA  
GATTATACCCACAGAGCGCCACAGAGACACTATGAGATGCAGCCACACCAATCAGACACT  
CGACAAGCACACGACCGGGGAAACCACTACACGCCACTCGGGTACAAGAAGAACGAACG  
CANNNN

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TCAACCTTCCCGGTAGGCAAGTGCTTAGAAGAAAAAGTTTCTGGTCTAAAGGATAGAGTAGG  
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ACAAGACTCTACACTCATTGGCACTGTCAATATATAGGAGGTGGACAGGCCATCTGCTTGGC  
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Table 4

TAAGCACACGAGTGAGGCTAACGCTGGAGCAGCAGGTGGCAGTCCTGGCATTCCCTGGGT  
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AGTACAATTCTGTGGTTCTTACTTGGAAGTCTTTATTTGGCTTTGGGAGGCCACCTCTTAGA  
CTCTGCGTTGTGGTCTTTCTAGAGTAAATCTTCAGGGCTGACTACATTCTGGAGTTCCTTTA  
CGAACAGCTTCTCCTCTGTATATTTTTTCCCACTGTTTCTCCTCCTTCTCATGTATTCTTAGA  
GGTCCAATATTCTCTTGAAGTTTATGTCTTCTTAGTTCCCTTTCAAATGCTTCAGTAAACGCCT  
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CAGTCTTTTCTTTAATCCN

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CCATCGCTGGGGTGGTCTATAAGGATGGCATAGTTCTTGGAGCAGATACAAGAGCAACTGA  
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GCAGATGCTTTTCAGGTATCAAGGTTACATTGGTGCAGCCCTAGTTTTAGGGGGAGTAGATG  
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GCCCATACACAGTGCCCAACAAGAAGGGGACCAGGCTTGGCCGGTACAGGTGTGAGAAAG  
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GTCCAACAATGGACACTTCTGAATGGCATCAGTGGGTGGCTGGCCGCGGTTCTGGAAGG  
TGGTGAGCATTGAGGCCCAGTAAGACACTCATGTGGCTAGTGTTTGCCGAATGAAACTCAAC  
TCAATAAAAAACAAAAACCAAATTGGGCAGCCAACCACCACAAACAAAAAAGCGGACG  
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GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTGAATGAAAGAAGTCAGGGG  
CCTCATAGACATTCACTCCACCCAACAACCACAGAATATACATTCTCCTATCTGTACCTCGG  
CCGCCACCGCGGGGAGC

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AAGCTGGAACACTTAGGAGACGTAAGATATACACTTGTGTATCCAGTTGGTGGAAATCGGGG  
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TCCAGGACCATTATTGGTTGAATTAGCCAATGAGTTTATTAGTGCTGTCAGAGAAGGCAGCC  
TAGTGAATGGAAAATCTTTGGAGTTACTACCTATCATTCTCACTGCCCTGGCTACGAAAAGG  
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Table 4

ACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTTCAAGGA  
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Table 4

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### Table 4

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Table 4

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Table 4

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Table 4

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GAGAAAAACAATGAGCTGAGAGGCAGACTTCCCTGAATGTATTGAACTTGGAAAGAAATGCC  
CATCTATGTCCCTTGCTGTGAGCAAGAAGTCAAAGTAAAACCTTGCTGCCTGAAGAACAGTAA  
CTGCCATCAAGATGAGAGAACTGGAGGAGTTCCTTGATCTGTATATACAATAACATAATTTGT  
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TTGTTAAAATAACTAGTGTTGCTTGGACTATTATAATTTAATGCATGTTAGGAAAATTTACAT  
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TTCCTATATAGTTTATTGACAATAATTTCAAGTTTTGTAAAGATGCCGGGTTTTATTTTTATA  
GACAAATAATAAGCAAAGGGAGCACTGGGTTGACTTTCAAGTACTAAATACCTCAACCTATG  
GTATAATGGTTGACTGGGTTTTCTGTATAGTACTGGCATGGTACGGAGATGTTTCACGAAG  
TTTGTTTCATCAGACTCCTGTGCAACTTTCCCAATGTGGCCTAAAAATGCAACTTCTTTTTATT  
TCTTTTGTAAATGTTTAGGTTTTTTGTATAGTAAAGTGATAATTTCTGGAATTAACAAAAA  
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CCGAAAGTGACACGCAACACACAACAGCCATATGACAAAGAACGACTCCCCACTCAGAGGA  
CAACCATAAATAACCCACAGCCCAGCCACATCAGATAAAGCAGCCAGATAACGAACAACCC  
ATCAACATGACAATGCGACCAACGACCACCATGCGGGAGAAACAGCAGCACCCTTCACG  
AGAATTGCAACCAGCAAAACAAGCCACCGACACGACGAACACACACAAATGACAAGA  
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Table 4

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ATAGGGAGTCGACCCACGCGTCCGGCGGGGAGGTCGCTCGACTCGGGGGGCGGC  
CGCCCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGCACATGGACCTGGCCCAACCCTC  
ACAGCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCC.  
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GATCATCACCTCCATTTTCTAGGTGTCATTACAGTGATCATCATAGGCTTATGTCTTGCTGC  
AGTAACCTTATGTTGATGAAGATGAAAATGAAATACTTGAATTATCATCAAACAAAACATTCTTC  
ATCATGCTGAAGATTCCAGAGGAGTGTGTTGCTGAAGAGGAATTGCCTCACCTGCTCACCGA  
AAGGCTCACAGATGTGTACAGTACATCGCCCTCTCTGAGTCGTTATTTTACTTCAGTTGAAAT  
AGTGGACTTCAGTGGTGAAAATGCCACAGTAACGTATGACCTGCAATTTGGGGTTCCATCAG  
ATGATGAAAATTTTATGAAGTATATGATGAGTGAGGAGTTGGTGCTGGGCATTTTGTACAG  
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GCTCTATGAATGAAGTATGAGGCTGGTCTCTGTCTGAAAGCAGTGCTCTACCAAAGTCCT  
GGAGATTGAAGGGGATCCACTCGGGTTTGCAGAGAAGATTCTGTGGATTAATACAGAAGCA  
CCAGCAACACCAGAGGGGTGGAGACTCCTTTCTCTCCCGATTCTACAGTCTGGCTCTAAGC  
CCAGTAAACAGCTCCCGAGCACTGCTTCAGCTGGGTCCAGTCTTGACAAAGGCAGGAAGC  
CAGCTAGGGTGGGGGCGATAGGGTCAGCGGGTATGTCCCACTGTTGGAGGTCACTGGTAT  
TCTGNNN

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TCCGGAAATCTACAAGAATCATAGAATTCAATAAAAAAGGTAGAAAGTAATTTTTTA  
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ACCACTTAGTGATTCTTTCTTTGTATAAACATGGTAAATGTCTTCATTAGCCTAAAAGGAAAG  
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Table 4

CTAATTTTAAATGTACAGCTTAATTAATTTTTATGTATGTTAACACCCATGTCACCACCATGTTT  
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GTCACCAACCACGCTGGTTCTGTACCCAAGACTTTCGATCTGGAAAGAAAGACTCGAAAAA  
GCGATATTCAAGACTGTCTTGACCGCAAACGCAGGGAGCTCCTAACCGCGCGACAN

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TCAGCGCTGGCTTCAGCCCCAGGCCTCAGATAAGTTGGGCACTGGGAAGCTCAGATGAGAC  
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TAGGCTGGGTGCAGTGGCTCACGCCTGTAATCCAGCACTTGGGAGGCCGAGGCA  
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TTAAGCCCAGGAGTTAGAGACCAGCTTGGTCAACATGGCAAACCCAGTCTCTACAAAAAC  
ANNN  
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GCAGTAACCTATTACTTAAAGTCTCACTTTCCATACACAAGAGACAAAGAATCTAGTCAAAGC  
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GGGAACCTGTTAAAGCCTTACACCAAGGAAAACATAAACTTGTACCTCGGCCGCCACCGCGG

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GGCGGCCGAGGTACAGAGTAGGATCAATAAAATCTGTGTGTTACAGCGGCAGACTG  
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CCCTGAAGTGGAAGAACAGGAGAAGCAACTGACGACAGATGCTGCCCGCATTGGTGCAGAT  
GCAGCCAGGTTGGACTGAGTCACTGCCTTGCTGCCCATCCCCATCCCATCATGAGAAGC  
TAGGCATTACCATTCTGTCTAGTAGGATACATAGTTGTTGCGCCTAAGTTGCTTCTGGC



Table 4

AGAACCCAAGGAATAAATTTCTCCATATCGTTTCCTAGTTACCCTAATCTCTGCACAAATTTGT  
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CANAGAGGAGCGANNN

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NNNNCTGAGTGGCGGCGGGCGGGCGACGGCAAACCCGGAGCTGCCGGCCGGCGCG  
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CTAAGTGAAGATGGAGGCCCGCTGCGGCCTGCCGCGGACATCCTGAGGCGGAACCCGCA  
GCAGGACTACGAACTCGTCCAGAGGGTGGCAGCGGCACCTACGGGGACGTCTATAAGGC  
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GAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCCAAAACCTAAAGGACAAAACAAA  
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ACAGGTTTCCAGACCGAATACTACCAAGAAAATTCGCTTTAACAACAAAGATTCTCTGATACAA  
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GCTTTACAGTCTGGAATTGTTTTACTTCAGTGGTATGAGCCAATGCAGAAATTCATGTTGATA  
AAGCACTTTGATTTTCTTTGCCAAGTCTTTGAATGTTTTGAAATGCTGGTGATACCTGAA  
CAGGAATACCCTATGGTCTGTGTAGCTATTAGCAAAGGCACCTGAATCGAATCAGGTAGTTCA  
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AAGTTTTGATTTTCGCATTGAATCTGTAGTATGCCTTCAAGACAGTGTGTTGGCTTTCTGGAA  
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CAAGAGTTTTCCGCTTATTAGGATCAGACAGGGTTGTCGTTTTGGAAAGTAGGCCAACAGAA  
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GAACTGATCTCAAATGACAGGAAAATGAATATACTCCATTGAAAGGAAAAATAAGGAAATTC  
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ATTATCTTAAGAGAGGTAATTTAGTGATCATTTTATATCATGTCTTATTCCTTCTTAATGAACA  
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Table 4

ACAGAATATTTAATCCTTATTTATTAATCTCTTGCTGGAGTGGTGTAAATGTATCTAACTTTTAG  
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AGATAGTTGTAAGGGATCATACAGAAGATATTGATGATAGTTGAAATATTCTTAGAAGGGGTG  
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TTGAAGAAGAAAAAAATATTTAATGAATTGAATTCCTGATGGGATAGTATCAATAAGTATTT  
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CAAGTTAGTAGTTGAGCCTGACCATGAGTCTT

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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
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ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
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CCACCTAATAAATAAATCCTTGCAATGACAAACCTGCAAAATATTTTATCAGCTGTTATT  
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TAATGTGACAGTTTTTTCAGTACTGTATGTGTTAATTTCTACTTTTTTTAATATTTAAAATTGCTT  
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GTGGCGGACNN

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NNNNCTATCCCAGGAGCCCCGGGCAGGAGCCCCGGGCAGGAGCACCGCATGCTG  
GCCTCCCTCCCTCACAGGCTCGGTGTGCCCCAGCAGACCTAGCTGCCAGCAGTGACAACAT  
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Table 4

AATTCATAAAAGATGATTTCTTATTTTTCTAATTTATGGAGAGGTATCTTGTTTGCTGAATAG  
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TATTTTCTAGAGTGGATTTTTCACTTAATTTTAAAATCACTTAAGTTCAAATACTGTAAATAA  
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GGTGGCGGTGAGTGAGGTGAGGTGGGCTGGTGTGTGAAGGGAGAATTCTGAGGCCAGTC  
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NAGTTGTGGGTCTTCCTTTGCAACGTTTCTTCTTCGCTGTGCCTCTGGTCGCCATCA  
CAAACCTGCATTAGGAAATGAGAGCGAGCATGTGGCCTGGCTTCTTGATGGAGATCGTCTC  
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Table 4

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GTGGCCTCACCTGATCGAGAAAGCAGCTTCGTTCATTCTTTAGCATCAAACCTGGTGTCTCCC  
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Table 4

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Table 4

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Table 4

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Table 4

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GTGAGCAGCGTCTTGGGATTTACTAGGGAACAAGCTGCCTTCAGGAACGCTGAGGCTCTT  
CTACAAATACCCACTAGACTGGTGCAGCCATGTTTCTAATGGAGACCGTCAGTTTCACCTA  
GGCCAGCAAN

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CCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCATTGAGGCAGCGAGAGCAGA  
GCAGCGTAGAGCAGCACAGCTGAGCTCGTGAGGCAGGAGACTCAGCCCGAGGAAATCGCA  
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TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGACCGATGGCGCGATTTC  
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Table 4

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 TGTACGAGCAATTAGGAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCA  
 CCAACATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTGTTCCTGTT  
 GTAAGTGTAAACAACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGACAACATA  
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 AACTCCTGGGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTG  
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 CCTAATTCCCAGGCACAGCGTGTGAGGAGGCCAAATGACACTTTCAGTGCAAGTGCTTGTA  
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 TCTTCCAGCATGAACAGCAAGGACAGAAGATTGTCCCAGCTACGGAAACAAGCTCCG  
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&gt;699

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 CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTTATTTTGGGGGGGCAGA  
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Table 4

ACCAGCACACCGGCGCCGTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTG  
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GGCCGCAGAGTGTTGGTGTGGGACTTACGGAACATGGGTTACGTGCAGCAGCGCAGGGAG  
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CAGCATGATGGATACGCTTGGACAAGCGCTCATTGTTGACGGTGGACCAAACTCCGGAAT  
GGTTTCACTCCGCAGGGCGTGGGAACAACCAGGCACGATTAGACAATCGCAACAGGCGCG  
GCGATAAACACAGACCCAGGGGGTTTATTAAACCGCATTTAGACCGCAGCAGGGGTCTCA  
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CCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGAAGAAGGCACTGAAGCTTGGGG

Table 4

CCAAAAAGGTGTTTCATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTCATCTGGCCGGC  
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CCCCAGATAAAGGTCATTGCTCCCTGGAGGATGCCTGAATTCTACAACCGGTTCAAGGGCC  
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CCCGTGGAGCATGGATGAGAACCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGAAC  
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GATACGCCCTAGGATACGGAN

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TAGGGAAATGCCAATCAAACTACAACGAGATACCCTATATCCACTAGTATGGCTATAATAAA  
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&gt;707

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Table 4

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&gt;709

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&gt;710

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&gt;711

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&gt;712

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NNNNCGCTCTTGTTGCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACCACAA  
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Tabl 4

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&gt;714

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&gt;715

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAGACAGGGTCTCGCTCTATCACCTAG  
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CCATTTTAAACCAAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTGTAAACA  
GACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTAACTTCTT  
GATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTACAAATTACATATACAATGC  
CAAAAATATTCAAAAATAACATTTTTTGACCTTAATGATTACAAATGCTAACCAGCATAAAGA  
CACTGGAAAGTTTCAGAATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACN

&gt;720

ACTTGAAGAACATGGTAAAAATATGTTCAACAATAATTTTTATCTTAGAAATGTATTCA  
GTAAAAATCTCTTTANTTCAACTATCCTCTTGATTGAGGGGAAAAAAGGATTAGCATGGGAG  
ATAACAGAATAGGAAGTTTAGGAGATAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTA

### Table 4

ATAGTTTTTTGGTCATGTATTCAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTTAAAAGT  
TTCTCTATTTTATCCCCCATGATAAAATTATATAGAATAAAAGCTGAATTGAACTTTCTTCAC  
AGCACACTGAAAAATATCTTCTATAGCATTATCAGATCACAGAATGCATATTTAAACAAAAAT  
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>721

[illegible]

**>722**

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TAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTTAGCTCAATTTCCCATCTGTAAAATAG  
GAATAATAAAAATACTGACTTCAGAGAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTC  
TGTA AATTGTTTCTGTAATGGGCAAGATAGCAAATATTTTAGATTTTGTGGACCATGCAGTCT  
TTATCATAACTGCTTAAGTCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAA  
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TAN

**>7.23**

ACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATCTCAGGCTTCTTT  
TCGTGTGTGTATGTGCGTATGTCCATAAATTCTCTTCTAATTACAGTGTAAAGCCACATCCCAC



### Table 4

[illegible]

**>724**

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CTGGAAGAGTCTGTAATAGTTTGTTTCATGAGCATTTCACAGTGGAGTTACTGTTTCATCAT  
GGGGGTACTGTGGACAAACCCAGGGCTGCTGGTGAGTCATGCCATCCTTACACGTCTTTC  
TTGTAAGGTACTTTGTAGTGTCTGTCTAAATATTAGAAAGTTTCTCTGTTTCTAGATTACTTGA  
AAGCTAAGGAAAAGTTGTAGTTCCTAATTATCAATTAGCATTTCCTTTATACTTTCAGTGTGG  
ATATTTGGGATTTCTTTATATATTTATTGCAAAGCCCTAGATCTTAGGGATTTGACN

**>725**

ACTAACTATTCCTAAATATTAACACTGGTCAACTAAAATGCACAAATTCATGAATTG  
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GTCTAGTTTAAAGCTTCATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAAA  
TCAACTATTAACCTCTTGCTGAAGACACAAATGAAATATTCCTATTTTACAAAGCAAATTAG  
ATTCGAAGATTTTCCAAAGCCATACTCCTGCAGTTCACCTGGGTTCAACTTAAAATCATAATA  
GTAATATACACATATTTACATTATAACCCATTACACATTATTTTCAACTCAATGCAAGN

**>726**

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AAGTATTTTATCTAAATTGCAATCAAAAAACATCTATAACATCTTGTTGGGGATACAAAGTTC  
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CCGCN

**>727**

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GCAATGCGGTTTAGGATTCCAGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAG  
ACCACTGAGTGCAGTTTTTCTAAATCTTTCCCCACTTTGATATGTGGTCCATAAACTGCTT  
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**>728**

**>729**

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TATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTTCTCCTCTGA  
GCACTAAAATCCTAAACATGCAACTTAAAAAAAAAATTCTAAATGTGAACACCACCTTTTCAGTA  
ATTTATATTAATGTATCATCTCACCCTCTTTTCTCCTCTTCCAACGCCCTTCTTTCTACCCAA  
ACTCCAATATACCAATTTGTTTGAACAGTTTTACATTCTAAGTGTCCAACCTATTGCTAAAGGAA  
TGGATAAATTGTTGT

**>730**

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ATCATTTAAATTCTTTTACATTTGGACAACAGAAAACTGAAATCTATGGATTCCAAGCTGCA  
AAGTATTTTATCTAAATTGCAATCAAAAAACATCTATAACATCTTGTTGGGGATACAAAGTTC

Table 4

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CCGCN

>731

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CTCATGAGAAAGATCTTTTGAGGGTCTTCCTATCTTGATTAAATTTATATTCTGTAACAATAGG  
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AACGAACACAACCTTGGTAAGTCTTGCTTATAAATGTTAATAAATTTGTCAAAGTATTTGTTAA  
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CATATGTTAACATTTACATGTCAATACCAAGACAAAAAGAATTTACGATATCCTCCACTTAGA  
ATTTACTCTACAATTATAGTTCAACACTTGAGAGTGTCTTCTTAATTAATAAAATTTATGATCTACA  
CAGAAGAGTCAACTGCTGATGTCAACAATTTCAAATTTAATAGTCAAAAAATGAAACCATAAC  
TCTAAAGATTACAAGCAATATTATAGAAAAAATTAAGAATACGACCACATTGAACGAAGATGT  
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>732

>733

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GTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAACTAATTTTAAAAGGCCACTAA  
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>734

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AAGACCCAACCAATAAACCCCAACCAAGCAAATCCAGCTACTTCTCTAGCTGAGAGGGTGG  
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NNNNNNNNNNNNNN

>735

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CCAAGTCTCAGCCATTTTGTAATGAGGATCACTTTCTTCGGTTCCCGTGACCTGTCCCT  
CGCCTCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACATTCTGTCTAT  
GATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAGCTCTCCCCTTTCTCTCTGAGC  
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>736

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>737

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Table 4

GTGGAATCTACCCAGAGGAAATGATTGAGACTGGCATTTCGGCCATCGATGGGATGAACAG  
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GGAATGGGATCGGTTTGTATGAAGTTTAGCAGACAAGAATTTCTTAATGCATCACTGTTACT  
GAGAAACCGAATAAAGGGTTTTCAAAACAAAAAANNAAGN

&gt;738

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&gt;739

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&gt;740

&gt;741

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Table 4

TTACTAATAGAAGTCCCATGGACTTAAGATCTGAGCAAATAAAGCTTTAATCTTCTTAAGCATA  
TAATTACTGGCATTGAAAAGGCATGACATT

>742

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TCAAAAAAATCAATATGCCAAAGTGGCATGTTTGGGGGTATCTGGTTCTGAATTCCTTCAGGA  
AAGATAGAAAGCAAAAGCAAAATAATAGGTTTAAAACTAAAAATATCCAGGTGCGGTGGCTC  
ACGCCTATAATCCCAGCACCTTGGGAGACTGAGGTGGGCAGATCATGAGGTGAGGAGTTGCG  
AGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACNNNNNNNNNNNNNN

>743

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TGCTCTCTTGTCTTTAGGAGCCGGGTGTGGGCTGAGCCCTGCCTGATTGATGCTGCCAAGG  
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>744

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GTATAAGACTCGGTGTTTATCTTTTAAATTAACCAACAACAAATATATGAGTTTTTAAAC  
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>745

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>746

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CGGGGTCTTTAGGATTTGCAGCTCCAGGAAGCGAGATGTGAAGCCGCCACCCAAACCAGT  
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Table 4

GCTTGCCACGGGGGCCACAAAGATATAGTGGAATGCTATTTACTCAACCAAATATTGAACT  
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&gt;747

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GCCAAGTTTGGGACTATCAGTGTAAATAGTGCTATGGGTATTTCTCAGGTGATGTATTGTCAT  
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&gt;748

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&gt;749

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GCAGAGAAGATGAAATTTGATAAACTGAATTTTTTTTTAAAAATCCATTTACCCTACAGGTTTGC  
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CAATAAATTTCTAATTACAAAGGTAAGAGAAAACCTAGTACATTACTAAATATATAAGTATAT  
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Table 4

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&gt;750

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&gt;751

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&gt;752

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Table 4

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>753

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>754

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>756

>757

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>758

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>759

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>760

>761

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Table 4

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>763

>764

>765

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>766

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>767

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>769

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>770

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Table 4

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>771

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>772

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>777

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Table 4

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Table 4

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AATGGTTATTCTTTTAAATGAAAAAGGAATTAGAGGAATATTGCGGCCGCAAGCTTATTCCAA  
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Table 4

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Table 4

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Table 4

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ACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATATCTGGGGTGT  
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Table 4

GGCCCTTGGGTGAAAGGTGCTATATAATTGTGAAGTATTAAGCCTACCGTATTTTCAGCCATG  
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ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAATCTCCTACC  
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&gt;791

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Table 4

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TTATCTACAAAGTAGCCAGTAAAGGTTAAGTTTTAGTGTTTCAGTGGTGTGGCCTTTAGCTAGC  
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&gt;793

&gt;794

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&gt;795

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&gt;796

&gt;797

&gt;798

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&gt;799

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&gt;800

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Table 4

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&gt;801

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&gt;802

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&gt;803

&gt;804

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&gt;805

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&gt;806

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&gt;807

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Table 4

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>808

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>811

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Table 4

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&gt;815

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&gt;816

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Table 4

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&gt;818

&gt;819

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Table 4

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Table 4

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TATGTGTGCACAATGGAAGTGTCTACGGGAATGATCTAGTCCAGAGGATACCAGGTTCTCA  
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GGA

&gt;822

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GCATATAATCAGCATCTTTCCCACTAAGTGAAGGGCCAGACTCGAGCACAGGAGCACAGC  
ACCCCTTAAACTCACGAGGGGCTGCATTACACCATCAGCAGGGAGATTACACTTGTGTCAT  
TTG

&gt;823

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CATTGCCTGGAGGAAGCCTAAGGAACCCAGGCATCCAGCTGCCACGCCTGAGTCCAAGAT  
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GGACCCAGGCATCTTGCTTTCCAGCCACAAAGAGACAGATGAAGATGCAGAAAGGAAATGT  
TCTCCTTATGTTTGGTCTACTATTGCATTTAGAAGCTGCAACAAATCCAATGAGACTAGCAC  
CTCTGCCAACACTGGATCCAGTGTGATCTCCAGTGGAGCCAGCACAGCCACCAACTCTGGG  
TCCAGTGTGACCTCCAGTGGGGTCAGCACAGCCACCATCTCAGGGTCCAGCGTGACCTCCA  
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CACCAACTCTGAGTTCAGCACAGCGTCCAGTGGGATCAGCATAGCCACCAACTCTGAGTCC  
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&gt;824

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&gt;825

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Table 4

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N

&gt;826

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&gt;827

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&gt;828

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&gt;829

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Table 4

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&gt;830

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Table 4

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&gt;831

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GCACTCTN

&gt;832

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Table 4

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AAACTATANNNNNN

&gt;834

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTATCTGACCACTTCCAGGAACAAA  
GCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTCTTGATCATCCATTCCATGTCCAGAA  
CACATTCACATCCATGCTTATAGTTCCCTCATTGCCTGAAGCCTGCTGGGTGGGGCATAGTAT  
GAATACTTGCCCTCATCATCCCCATTTACAGATGCATAACAGAGGCCAGTCAGTATGCCT  
GCAGACTGTGGATAGAGCCCCGAAGCCTCAGGTTAGGCAGCTTGCATCCAGCTGTGAGTCCC  
AGCTAGGGGAACTGAGTCAGCCTCCATCACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTG  
GGTATCATGATGCTGGCTTTGGAGGGTAGCTGTGAGTATTAAATTACGCTGATGCAGGGCA  
GGTGAGCCCCCAAATTGGGGTTTAGCTTGCAGAGAGTTCTTGGCTNNN

&gt;835

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTCAATGGAAGAAAAGTCCAGCTTA  
ATAACTTTAATGGAGAAAGAAGGAAGCAGTATAAATTTGTGGAGACTCCAATCACATGTCCTC  
CACTCTGCTACCCTGGGCCCCAAAATAAGGGAGGAGACACTCAGAGCCAGGTGTTTCCCTTG  
ATGGGAATGTGATCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTTC  
TGTTCCCTCTGAGTCATGGAAGTGTTCAAAGGAATCATGAGGGTATTTCTGTTACTTTACTTA  
CNNNNNN

&gt;836

NNNNNNNATTGTA AAAACATGCCAAAGCANAGCAGAGGCTTTTATTGCAGATAAGGC  
TGTGTTTTCGCTCAGAGACCAATTGTGTAGATGCCTAGGACATAAATGGTGGGGATCGCTAT  
TGAAATTAATTAATTATTGTAAGTAGGACTCAGTTCTGTAACACATCTAATGATATGCTGCTC  
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CCGCTGACTGAAATACTTAAGTGTCTACTAAAGTGGTCTTACTAAGGGTAAGAAGCTGAGG  
AAAGCAAGCTCTCTGCCTGCCTAGATTTGTGTGTGTACCCCCAGCCTACCCTGCTCCCCCTA  
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CTTTTGTAACCTTTACAGGCTTAATATATGTTTAGTGTTTTAAAGAAATACTAATTTTGGGT  
GCTTTGGGGATGAAATTTTTCAATTATGTCGTTTGGGATTGAGAACATTTACCATCACTAAGTC  
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GTTTAAAGAACATGGTTGGTGCGGGAGAGGTGGATGAAGACTTGGAAGTTGAAACCAAGGA  
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TGATGTTTATAACACAAGTTGTAATTGGCACATTACAAAACATTTTCTACAAACAGGACAGGG  
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CTCAATTATTACAGTTTTAAACATAAAGACAATGATTTCAAGTTTTATTTGATGAAGAAACAGG  
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TTAGTTCCTTAGACATGCCTTTGGTTTCAGTCATTTGGTGAGTATTTAGTGCCTCTCACATG  
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GTTCAAGTTGAAGAAACACATAAAATAACTGAAAGATATTCAGTTACTAGACTAGGTAGTATTG  
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TAGCAGATATGGGCTGCGCTTTGAAACGAACAGGTGGGATTTGCAGGGAAGGGTATTCTGA  
TTGGGATAATGGCTCGTAGGAGACAGTGAAGATCAGGACTACCAAATGGAATGGATGGGC  
CTGTTGGGGATTAGCAGAAGTGCTTAGGTGGGTGGAATTACAGAGGGCTAGGAAAGCTAGA  
CAGACTAGTCAAATGAGACCTGATGTGAAAGGCCACTAGGGCACCAGCCTTTTTAATCTGA  
AAGCTCTGCTTCTCTGTTTCTTTATCCTGTTGCTGGTTGTTGACCACATAATTATTTGTTTAC  
GTCATCAGCTGGCACAGGGCCTTTATGAGGTGAGAGACTGCCTAGCCCTGTGTTCTGGCA



Table 4

CCTAACAATGCCTGTCATAAAAAACAGGCATTTCAGTACGTTTTTGTATGATGAACAAATTATACT  
TATTTCTTGGTATTTGACAACTACTTGACTGTATATGATGATAATTAGAATATCCACTCTGAG  
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TTTTCTCCAGATTCCTGGTGCCCTGATGATGAAGCAGTACGGATATTTTGAATTTGAGA  
GAGTTGAATCAGCAATTAAGCGGTTGTTGACTTGAATGGGAGGTATTTGGTGGACGGGTG  
GTAAAGCATGTTTCTACAATTTGGACAAATTCAGGGTCTTGGATTTGGCAGAACAAGTTAAG  
GGCGAATTCGAAGCTTACGTAGAACAAAACTCATCTCAGAAGAGGATCTGAATAGCGCCGT  
CGACCATCATCATCATCATCATTGAGTTTAAACGGTCTCC

&gt;837

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CATTCTCTATATTCACGAACATCTCCTGACTGTTCCTTCAGTGGAGATACCCTTTTCTAGCC  
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GTTGCATAAAGTAGGAGGTCTGTTATTGTCTTGGTAGCATATGCCTTCATTATAAGTTTGCCT  
CTTTGAAAGAATATTCAAAGACCAACACAAAAGAGAACATTTCCAGATCCAAGAGAGTGTATG  
TAGAAACAGTGACAAGTTAGAAAATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCT  
GAGGAAAAATTCATAGCAATTTATAACAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAG  
ATTTTGTGAGAACTTACTAGACTAAGGATNTATTGCATATTTTTTACTAATTAATGTTGGGA  
TGNNN

&gt;838

&gt;839

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TCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGTCTTCTCAGCATCTGCCAATGTCT  
CTTACTCAATCTTGGATCAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAG  
TTCTCCGCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGTCCCTGAACAAGAA  
GCAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTTGGGTGATTCTGATCCA  
TGACGCCCTTAGAGGCGACACAGACGTGAAGTGGACATTCTAGGAAGAAAGAGCCGACTGC  
CGGGTGACCTGTCTAGTTCACATCCACTCACCATTTCCTCCTCGTTCCTATTCTTAGAAATA  
AGACTCTGACGCTCTCTTTTATACAGGCTAGTCCCCTATAGGCATGTCATGGTGATTATTTGC  
AATCCTCCTGACTTTCCTAAGAAGAGATCAGACTTANNN

&gt;840

&gt;841

NNNNGATAACAGAGTTTATATACCTCCTGTCCCCATCTGTACACTTAAAAATGTATGT  
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TTCAGTTAAAACAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCACTTGGTAAGTATT  
TTTTAAAGTGAAGTCTATTCAGACTGCAACCAGTAACTATTTATGCTTATAATTTTTCTCAG  
ATGGATTTCTGTTCTTTGTTGCATTGTTGTGTTATTTTATGTGATCTTTTTTAGCTACAAG  
GTGGGAAAATGACAGTGGTTTAGAGATAAGAAGCACATGAATGGAAAGTAAATATGTGGAGA  
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&gt;842

ACTAGCTGTTTGGGAACTGAGGATCATAGCTCACTGCAACCTCCACCTCACAGGCT  
CAAGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGCCACCACACT  
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GTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGG  
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TAGTTTTCATTTTTGAAAATTGCTCTTCCAGTCCCAGTGTTCATCTCATAAGCCCAGGAATCA  
CCACCTGTTGATTTCTAGGCATCTTCTTGCTCAGGGTAGTAGATGTTTGGTGGACTAGAAA  
TGCAGGGAGAAGAAAAGGAAGGCTTGGTGATGTCAAGGATTTTAAAAGCAAATCTCTCAC  
TGTGTTCTCTCAATAGTCACCCTCTGTGCTGCTCATTCCATGAGGCTTAAAGCTGATAACTGG  
GGGACAAAAGGGTTAGGGTAACAATTTATTTTGTCTCCTGACAATACACATAACTTTTCT  
GCTGTGCTTGGGGAAAATATAACTGTGGATTAATTCTGACTCAFTGTTTGGANNN

&gt;843

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AGGTATGTCTTAATAGAGCAGTGCTAAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTA

Table 4

GAAAAGAATATGAAGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTC  
ATTTTTCTCTCACCTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACAAATAATGAAAGC  
GAACCCTGTTGCTCTGNNNNNNNN

&gt;844

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ACTAACTCAGATTTACTTGCCAAAGGTACACAGTTAATACATGGTGAATCAGGACTCAAAA  
TCAGGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCACTTTACCAGGTAACCTTCATAATA  
CCGGATTGGAAATCAAACCTGTCACCTACTTTCTATGTCCCTGAGTGAGTCACAACCTCTCTC  
AACCAGCNNNNNNNNNN

&gt;845

ACCAGGAAATTGGTTTGATTGCCATAGGCTAACCTTGGACCAATCACTGTGGCCAAA  
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AATATTTGTTGAACAAATCAAAGCTGATCCCTTTTTTCAAATTTTAAATGTGACTCTTAGGGG  
ATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGGTGAGGAAGCTC  
TCAACTCCTTACAGAAAACCAAGTGCTGAGAAGAGAGAAATAGAGGAAAAGTTGCACAAACTC  
TTCAACCAAGACCACCTAGTGATATATAAGGGATATGTTGATGATCCTCGAAACACTGATAAT  
GCCTGGATGGAAACAGAAGCTGGGAACTACCATGACGAAACAGGTGAGATAATGGATAATC  
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GTAGCTGATGGTCTCCGTGTAAGCCAAAGGCCACAGAGGAGCATATACTGAAAAGAAGGC  
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CCCCCAATCCCCCTTAGGGGGGGTTTTTTCCCCCCCCCCCCGGGGCCGGNNNNN

&gt;846

ACTTTACTTATTTATTTATTTATTTATTTGTTTTACTATTTACAAAACAAAATGTAGCTT  
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TCGGGACTTGTCCAGATTCTTGTGTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGCT  
ACAAGACCT  
TGTGAGCATTATTAATTGCGAGTTGATGGTGCATAGTTTGCGGAGTGGGTAAAGGATATGT  
TACTTTGTAAGTANN

&gt;847

&gt;848

GGATGTTTTCTTCAGCTGTATGATTCTATCATACTTGAAACTGATGAAAAATTTAGTAT  
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Table 4

AAAGTAAGGTAAATAGGAGTTTTAGTTGTAAGTGGCCTGTAAGATTTTTAAATTACACAGTGC  
 ATGACAACAATAAGCCAACTCAGTCCTTCTCTGGCATTGTGAGTTGAGGACCTTTAGCC  
 AACTGTTAGCTCATCTGACTATCTGTCTAGACCAAGGGTCGGCAAAGTTTTAGTAAAGACC  
 CACAGAGTACATATTTTGGAGTTTGTGTTGTCTGTACCAACAGACAGACATGGTGTCTGTCC  
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 CATGGCTGTGTTCCAGTAAACTTTATTTACAGGCCAGGCATGGTGGCTCATGCCTGTAATC  
 CCAGCACTCTGGGAGGCTGAGGCTGACAGATCATCTGAGGTTAGGAGTTTGGGACCAGCCT  
 GGTCAACATAGTGAAACCCCATCTCTACTAAAAGTACAAAATTAGCCAGGCATGAN

&gt;849

CGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAATAAGGGACCA  
 GAAGTAGCCTGGTAGCCAGTGTATTTCTGGCTTTATACATTCCTTAGGAAAAAAAAAACTTT  
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 GACCTAAACATTCGTTCTACGGAGATAGGGTCAACACGCAGATATTTATTTAGCAGCATGGT  
 CTGCAGAAAGTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCAGCATTTTGG  
 GAGGCTGAGGTAGAAGGATTACTTGAGCCCAGGAGTGTGAGACCAGCCTGGACAAAATAGC  
 AAGACATCATCTCTCAAAAAATAAAGAATTAGTTTGGCACACAGGCCACGGCCATGACAA  
 GGGTGACTTGCGGTCTGTTTAAATCACAGGAAACAGCGTATGGCCATGATTACTGGCCGTCG  
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&gt;850

NNNACATTATCCACATTTAACACCTTTTCAGTTGATGGCTGATTATCTGATTTTGCAA  
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 AGGCAGCTCTTACACAGCTCCCTCAGGACTTCCATGTGGTGATTAAGCTGGTACAGGCAG  
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 TCTTCCAGCAATAATTCCACAGATTCTCTGCTCCCATATTTAATGTTCCAAATATCCAATTTTG  
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 CAATGGCAAGTGATTTTCATCCTTATTTCAAAGGTAAGGAGAATGTTGCAATGATGCTCAAA  
 TCTATCCATCAGGCTCTTGAATAAAGTCATTTTCTTGTATCAGAGTCACGGCTTGAGAGTG  
 ATCCTGGGAGGCTGACAAATCTTCATCCATAAGCTCTTCTACCTCCTGGAGCCAAGCTTCAG  
 TTTGATGGAGGGGTGGGGGCAAGGCATAATTTAGCTTTATTTTCCATGCATTAATCTGGTGA  
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Table 4

TCCTTTTGCAGAGTTAACCAGCCCATAGCATCTTTACCTTTCCCTGAGCCTCCTCTCCAGTC  
CCAGGGGCATCTTTGGAATACTGCAGAACTGTGCCACATAGGTCATGATGGACTTTTCATC  
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CCGAGGCAACTGTTGCCAGAAAGTACTTCTAGCAGATCCAGGAGGACATGCCCTTTTAA  
TGTCTGTGAATAGGTCCGATATAACTGAGGGAGAAGTGTGCCTGGCCAACCTGTGAGTTTATC  
CAGCACGTGAAGGCTTTCTTCTGGGTGTCTTCTGTTGAGCTTGCAATGAAATATGGAGATC  
GTCGATGCCCCAGGAACCCTGTTTCATCTTCGGTGGGAAGCTCAGGACTAGATGCCATTCTTT  
GACTCAATGGAGATTATATCATGTCCATCTCAGTTGAAGAAGTGAACGTCCGCCCCGGCCGAG  
GGGCAAGGGCGCGGGCCGGGGCCGAGGTGCGCGCCCCGCTTGCTGGCTCTCTGG  
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AGCTGAGCTCGTGCC

&gt;851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAACCTCATCTTAAAA  
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CAACTAGCAGTCCTCCCATGCCAACAGATTTGGGGTCTTATCTAAGTGTCTGTCAGCCGG  
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TAGGATATGCTGCAATGTATGT

&gt;852

ACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCTTGCTTCATG  
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GAAGAN

&gt;853

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&gt;854

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N

&gt;855

&gt;856

NCCTCAAGTGATCCAGCCACTACAGCCTCCCTAAATGCTGAGATTACAGGCAGGTA  
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Table 4

AGTGTATATAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAACCTATTAAGCTC  
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GTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTTGCTGGTTCCATGCCTGGCCATA  
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&gt;857

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TCTATTCCATANN

&gt;858

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&gt;859

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Table 4

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Table 4

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&gt;865

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&gt;866

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&gt;867

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&gt;869

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&gt;870

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Table 4

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&gt;871

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&gt;872

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&gt;873

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&gt;874

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&gt;875

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&gt;876

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Table 4

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&gt;877

&gt;878

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&gt;879

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&gt;880

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&gt;881

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&gt;882

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&gt;883



Table 4

&gt;884

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&gt;885

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&gt;886

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&gt;888

&gt;889

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&gt;890

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GAGCCAGGGACTGCCACCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTA  
GGCTGACGACACATTTTTCATCATTAAATCCAGCCTATTGTAACCAGGGGCCACTCACATTGATT  
CGGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCGCTAAAAATGAGGGCCTGA  
AACTAATCAAATATATTTAGAGCCTTCCCTGGCAACTTGCTGGGAGAGCAGCAGTAGACAGC  
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&gt;891

ACCACTTCATGGCTAAGCATGTGCGGGATGGAACCGGTCTTCTGCGGCTTACATCT  
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ATATAAATACAACAGTGAATGAACAACAAATGGTTATTTTAAAGATCTATCTTGGATGGCTATT  
TAATTTCACTAAACCCAGGTTGCTCACCTGTTGACTGGAACAAACAATAGTCCCTTCTTCAT  
GCGGGCATGGTGAGGGTTTTAACCCCGCATTGTCCACAAAGACCGCTTAAATTATAGTAGAT  
GCTCAGCAAATCTGAGCTATTATTTTATCACGACTGTCAGAGGTCAGATCAGGCTTCGGGG

Table 4

TCAGACACACCTGGGTTCAAATCCCAGCAGGGCCACTTACTGTTGGAGCCGGGGCAAGTCA  
GTTATTCTTCCCTGAGGGTCAGTTTTCTCATCCCTAAAATTCCAATAATACTCATCTTTC  
AATGATGCCGGGAGGTCTTAAAAATAATATAAGTTTCAGAATGATAAACAGGCTGGCACAAA  
TTGGATGGCAGCAAATGTCCTTGCAGCCCTGTGTCTCCTGCCTTAGTTTGTGTTGAGGATTA  
GGTCAGATAGTGT

&gt;892

ACTACAGAACAGGAACAATCTGCCATGTGTGTTTACAACCTTCAGAAAGCCCTGGAAT  
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TTTGAGGATTTTCAGCTCCAAATCCTGAAAGCATTTCATGAAACTACATAAATTACTTTTGTAA  
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ACTGACCACATGTTTCAGTGTGGGCAAGTTTACCATCCATCACGGATTTTGTGCTTGGTGAA  
TTGTAGGGAGTGAAAGAGAGAAGGATGTTTGGCCAGTTGTCTTTTTACCTATATCTGAAAT  
TCTCACTTAGTCAAGAACAAAACATTTAGACATTTAATTTCTTTTGGGGTTNTAAGTGATACA  
TGTTTAAAANN

&gt;893

ACTAGCATTAAAAAGTCCTACAAATTATTAGAGAGAAAATACAGGTTGCACGCAAA  
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GATATGATTAATAN

&gt;894

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GACACCATGACGAGAGCTTGGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAA  
ATCTGGACCAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATCATCT

&gt;895

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&gt;896

ACCTTGAGCTGCCTCAGCACTCTTTTGCCATTCTGTGCTAGAAACAGCCAAAGCCAGA  
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&gt;897

&gt;898

&gt;899

ACTGACAGATGCCTGGGTAACCATGTCCAATGTTCAATTTACTTTCTGCTGGACAGA  
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&gt;900

&gt;901

ACCTATGAGATGCATTTGAAAACCTTACCTTGTTTATATGTTTCTTCTGTTGCAATTTCT  
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Table 4

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>902

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>903

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>904

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>905

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NNNNN

>906

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TT

>907

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>908

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>909

>910

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Table 4

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NN

>911

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>912

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>913

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>914

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CAAAAGGCCCGAGAGGCTCTCTACAAGGAGAAAGCAAGCCAGAGAATCTGA

>915

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TGTAACCCTACAATAATCATTACAAAATAAAGAGATATAACAGTAAGN

>916

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GGTAATCCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAG

>917

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>918

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CCCCAGAATATCTACAAAGTGGTAATGCATTAAATATAGGGCTTTTACAGCACTTGACAGG  
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Table 4

CTGCTTCACATCTTAGAGCATACTGTGCTACTTGCTGTCCCAGCAATCAATACTGAGTCACAT  
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GACTTCCTCCATAATCAGTCTGGGAGACCGTAGGGTATATGATAGTTCTTAACATGATTTGCC  
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CATCTGGTATTTCTTCCACGGCCACTGTTTCAGTATTCTGTGGCAGGTGCGAGGGAATCAG  
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&gt;919

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&gt;920

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AAAATGCTT

&gt;921

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GAA

&gt;922

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Table 4

&gt;923

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&gt;924

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&gt;925

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&gt;926

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&gt;927

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Table 4

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TTGGGTCAGACCAATTCAGAGATCCCTTCCAGAACTATTATCAGCATGGCCTCGTTGACT  
CTGGGGAACATTCTACCCGTTTCCAAAAATGGAATGCTCAGGTCAATGGACCTGTGATATC  
CACGGTTATTCAAACTATTCCATAAATGAAGTTTCTATTTTTTCCAAGATAGAGTCAAAC  
CTGAGCCAGCCTCATTGTGTGTTTTGGGATTTCAAGTCAATTTGCAGTGGAAACGATGCAGGCTG  
CCACCTAGTGAATGAACTCAAGACATCGTGACGTGCCAATGTACTCACTTGACCTCCTTCT  
CCATATTGATGTCACCTTTTGTCCCTCTACAATCTTCCCGTTGTAATGGATCACCTATG  
TGGGACTGGGTATCTCCATTGGAAGTCTCATTTTATGCCTGATCATCGAGGCTTTGTTTTGA  
AGCAGATTAAGGAAAGCCAAACCTCTCACACACGTCGTATTTGCATGGTGAACATAGCCCTG  
TCCCTCTTGATTGTGATGTCTGGTCTATGTGGTGCCACAGTGGACACCACGGTGAACCTTCT  
GGGAGTCTGCACAGCTGCTGTGTTCTTTACACACTCTTCTACTCTCTTGGTCTTCTGGATG  
GTCTGCTGGGTCCCTGGGTACGGATCATCGGTTCCATCCATGGCAGCATTGAGAGGGGG  
GGGTTGCGGGAGGGGGGCCCTTTTTGGTTCCTGTGGTCCGCTGCACTCAAGAGGGGTGGG  
TGCTGCCGGGACCCCGTTTGCCCCGGCGGGGTGCGGGCGCCACCAGGGCGGGGAGGA  
GGCCCCGGCGCTCCTGCGTGGGAGGTGGAACNNNNN

&gt;928

ACAAGAAAGAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCAACAAGATG  
GGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAATAGCCACATTGCAAAACAAACAAA  
AAAAACGAGAACGTTCCCGAGTGTGCCTCCAAACATAAAGGAGAAATCATACAGAAAAAC  
CTCATGTAAGGGTTGGAACCTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTA  
GCTAGGGCATGGCCTGAGAGAAGCCCCTTCTGCTTTCAGAGCCTACAAGTAGTCCCCAG

&gt;929

ACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTTCTAATGAGTTCT  
TCTAAAAAAGTCAATCAATTATCACTGCTATATATGTTCTGTGTGAAGGAGTGCTTGAGAG  
TCTTTAATTGTAACATTTATTAATAAGAATAAGAGGACATTTTTAAAGGAATTAAAGGAACAT  
TAATTCCTTCATAAATGTATAGTGCTTAAGCTCTGCTTTAAAGGTCTTCCATGTGCTCTTGG  
GTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTGCAATCACAAT

&gt;930

NNAGGCATGCGCCACCACACCCAGCTAATTTTTGTATTTTTTAGTAGCGATGGGGTT  
TACTGTGTTGCCAGGCTGTTCTTGAACCTCTGACCTCATGATCCACCCACTTCGGCCTCC  
CAAAGTGCTGGGTGGGCGTGAGCCAACCGCACCCGGCCCCCAATTTTTTTTTTCCAAAAA  
GTAACCAGAAAAGTCATCTCAAGACAGTGTTAGAGAAAGCGTTGTGTTTCTCCTCTGAGTC  
TTAAGTGGGGGCTTCATGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGCCAGG  
AAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTCACTGTCCCCCACCTCT  
ACCATGATGTCTCATTCTGGAAACCCGAGCAGGGATAGTGGCTTGGGCCCTTCGTCTGG  
CTTTTCTCCCCACACTTGCTCCCTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAAT  
GGTTAACCCAGGAGGGGAGGGCAGAGAACAAGGGCCCCACATCCTGGCTCTGCCTCTGACA  
AGCTGTGTGACCTTGGGTATCAGCTGACTCATCGGAGAAGTGAGGAGGACGGACTTGGGCC  
GTGTCTGGATATTAACCTTTGTTGGGTCCCTGACCTCTTGAGAACTGATGCATGCTTCTCA  
AGAGGCCGCAAGTGCATTTTACACACTATTTAGGCACCCACAGATCCCCAGATTAGGC  
TCCACAGGCTTCATGTTGAAACTCCTTAAGTGACAGTGGTCAAGGTACCCACCAACACTTA  
TTTAACCTTGACAGTTTGCAAAGNNN

&gt;931

&gt;932



Table 4

&gt;933

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAACACACGAAC  
TGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGGGAGGGACAGAAGGAAATAG  
GATGGAAAGGGGTTGAGGGACTTCAACTGTATTTGTGATGTTTGTAGTTCTTTAAACAAAAAT  
CTAAATGACATTTGAAATATGAAACAAACGCAGAAAACATCAAAATGTCAACAATACTTAAAC  
CTGAGTGTTGGGTGCCTGAATGTTATATTGGTCTCTG

&gt;934

ACCCAGTATATGAGCAATTGCTCAGCAGTGTGGATATAGGGAGTGGATAGCTATT  
ATTAATTGCAGATTATTTTGAAGGAAAAACACACAGAGAATTATGTATCTTTCAGTGTAAATG  
TTAGTTCTAAAAACAATCATATTATTTACAAAGCTGCAGTTATAGAACAATTCTGATTTCTG  
CCTCACCCCCACGGTTAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTTATTAATAA  
TAGCTGTTATTTTAATAGCTATACTAAACATAAAAAATGTTTAGGCCAGGCGTG

&gt;935

ACCTAATTCATAAGATAAGGATTAAATGAATTAATAATATATAAATCCCTTAGATAACAA  
TGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAAATGTTGTTGTTACTGTTATGGAATTT  
ATCACAAATATGTAATTATATGTTTCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTC  
TGTGAGGATATGTCTATTTGGTTTACCCTGTATCCTCAACAACCTGCTGGTTGTCCCTATTGT  
AGGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTTACTTTTTAAAAAATTGAG  
GAAACCAGATAATCAAAAAGAAAGAAATTAATCACTTAATAAGTTTCATCTCCCGGATAAG  
AAAACATAGGTAAAGAGAGATTAACCTCCTTCAAGTTCAGGCAATTCAGTATTCTAATTG  
AAAGTGTTGTGTTTCTTTTAAAGTCTAGTTTTGCTTTTGTGTTTATATGTCATAATTAATTGTG  
TTAAACATAATTTAGAAACCGATCTTTCTATATCCCTCTTTTCTATACCCCCCAATTTTACTT  
CACTTTCTTAAACAACAATAAAAGTCTCCTGTAAACATAAGAAAGCTTTTCTTCTAATTATCTT  
CTTTAGGT

&gt;936

ACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGAAACAGGCTGT  
TTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACAGGAGGTTGTGGGAACATATAGA  
CAGTGACCAAACCTTTAATGAATACAGGAAGATTTTCTGGAAAAGATGACATGTAGCAGACA  
GCTGACAGACGAGTTTACCAGGTTTCAGAACTTAAGTGATAATAATCTTTTTATCATAAAATTT  
AAGTGTTGGTAGAGAATAAAAGTTTTGAATTAATGTTGAATGAAATGTGTTATG

&gt;937

GTCGACCCACGCGTCCGAAGAGGTCCCTATGACAGGATCAAGGTAAGTATGTAGATA  
AAGATGCGTACATTTCTTCTTCTTCTTTTTTTTTTTTTAAGGTGTTACTTGGCTGGATCA  
ATTCCAGCATCTAATTTAGTTAAGAGACTTTAAAAAGGGATTATATTTGGAGAAAAAGGCAG  
AAATTAAGTGTATTTTTCAGTCTTAATATCTCACATAAATGACCTTAGAATTGGCTATGTTAG  
TAGTTAGTTTATGTGGTACATGTTAAACACCAGTAGAGAAACAACCTATGGTTGTGATTAAATC  
ACTTGACTTTCTGCCAGAGCTAGAATCTTAACTCCTTTAAAGACGACTCTGGGAAATCCAG  
TGTTTGATGTAAAAATAAAAGGTAAGTTAATTCTAGATTGAGGGGCAGAGGCTATTTCTTAA  
TCTCCAATCTCCTTGGGAAGGGAAAGTATTAGGAGGCAGTAATGGAGTAGAAAGTTGGGA  
TGGCAAATAAGAGAAAGATTTAATGTAACAAAACCTGTTTTGTCCCTCTTCTTAAGTAAATAATT  
ATTGGAATAATTAGTGTAACATCACATAGTAATGTGTATTTTGTCTTGACTAAGTTGTGTAAAG  
GAATGTCTTTTTAATTCAGCTTTTCTTTTCTCCATGCTAGTGTTATCAGGTTTTGGTATTTATTT  
ACTTACAGCATATGTTATGAAGCTGGTTTGAAAATTGGTTTATAGATATATCTGCAAGTTTACTA  
CTTTGACTGTAAAAAATAAATGAAAAAGTAGTTGACATCTGTCCTCAGAAGAAGTTTGCAGG  
TTGCATATTTGTGTGTAATACACAGGCTAAAAGGTAATTTATGTTCTTGGGAATTGAAATG  
GTCAGTGGCCCGTTACAGAACTTATCAGTCATATATCAGCACCAGTTCATTCTTTTGCACCT  
TAGGGACCATCTGTCCCCTGAGGTGACCTGAGAAACAACCAGTTGCCACAGACTGTTATTT  
CTTCAAGTGAGCCAGGATTTGATTTCACTGCCTTATATTCTATTTTTAGTGACAGTGCTTTGA  
TTTTTTGGAAAACTTAAATTTTAAACATATTTGAAAAATGTTATAAGACTTGGACATTAAGTCT  
GTTGATAGCCAAAGTCAGTTTACCAAAGTAAACAAATAAATTCTATGCTTCTTCAATTGTCAA  
GAGCAGTCTGCCATCATGTGGATATAAATGGACTATGTAAAGTGACATGGTGCTTACTCTCT  
ACCTAATAATAGCCTCCCTCCTGTTCCAAACAAGATAACCAACAGGTATATTTAATTTACCAG  
TTAATATGTTTTGGATAATTGGCTGCCTTGAAATGCTATATGTTTTATAGTACATCATAGCTTT  
AGTTTTCTTCATAAGGAAATTACAGTTACATCCTAATCGATTATTAACCTATCACTGTGTCTAA  
GAATGGTGGAAGAAGATAGGGAATAGGTAGGGAAGTCATTATAAATATATTTTCACTGGCCA  
GGCGTGGTGACCCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACG

Table 4

AGGTCAGGAGATGGAGACCATCCTGGCCAACACAGTGAAACCCCGTCTCTACTAAAAATACA  
AAAAGTTGGCCGGACGTGGTGGCAGGCGCCTGTAGTCGTAGTCCGAAGTACTCAGGAGGC  
TGAGGCAGGAGAAATGTTGTGAACCCGGGAGGCGGAGCATGCAGTGAGCCGAGATCGTGCC  
ACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCCGTCTCAAAAAAAAAAACATTAAAAAA  
AATGTATTTTCATTTGTGACTCCATCTCAAAAAAAAAATATATTCTTTAAAAAAGAGAGAGAG  
ACCTGGAGTAGAGATTCTGTCAAAGAACNNNNNNNNNN

&gt;938

NNNNNNNNNNNNCGNGGGTACTTCTAGAATTAATTAATAGATATAATTGATTACTGG  
TCAGAATAGCAAAAAGAACTAGAAAACCTGAACAACACTAAATACCAAGTATACTTCACCAGA  
TATCTATAGAACATTCCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTG  
TATGTGGAACATTCTCCGGGATAGACCATATGTTAAGTCATAAACGAGTTTCAATAAATTTA  
AAAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATA  
ACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAATTAACAAACACTCCTTAACAAC  
CAGTGGGTCAGAAAAGAAATCACAAGGGAAGTAACTAGAAAATCTTTGAGCTGAATGAAATGA  
AAATGTAATATACCAAACTTATTGAATGCAGCTAAAGCAGTGCTTAGATGGAAATTGATAGC  
TGGCAAATGTCTGCATTGAGAAGGAAGATCATCTCAAATCAGTAACATTGCCTTCTACCTTA  
AGACTCTAGAAAAAGATCAAACCTAAGTCCAAACCTTAG

&gt;939

NNNNCTCTTCTCCATACTCTTTTAATTGGATATGCCAGTGTGTCTCAGTAATTTCCA  
GTGGCTGTAAACTTTGAGAAATTTGTAGCTTTTAGAAACCATACCTGTATTGCCTGATT  
GCTTATTAAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTT  
TTCCATGAAAATTTCAAGTGGTGACAAATTATAGAATTTATCATTCAATTCAGTCTTAAGTAA  
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTTTGTGAGTGTAAAGAATAGAGACA  
AAATAAGTTAGATTTGAGTGCCTCAGAAGATATTAGAAAATAGAGATAAGGTTTATGGCCTT  
TAAAAAATTAAAGACAGTATTGGGGGAAAGAAATGAAAATTGGGACCGGGCGTGGTGGCTC  
ACTCCTGTAAATCCCAGCAGTCTGGGAGGCCAAGGTGGGTGAATCACCTGN

&gt;940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCAGAGAAGCAAAGAAATGTGCCCTAGGT  
CACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTGAATGCCTCCAAAGCCCT  
CGACCTTCCCACTATACTTCACGCATCTCTAGAGAAGAGACAGAAGTAGCCAGGATGAAGGT  
CTTCAGGTTTAAAGAAGAACTATGAAAAAGCAAAGATTTTTGTTTTCGTGGTTTTTTACTATA  
AAGGAAACTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;941

ACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAATTTGATATCAAA  
GGAAGTATCAAAACCCTTGATGTGGTTAAGAGCATGGATAGTGAACTAACCTCTGATGTAT  
GGTGAGAGAGCAAAAGAGAAAGGATTGCAAAGAACTGGAATGTAGAGGATGAACATATTG  
GTAATAATAATACTGGTGGAAATTGTTATTGAGGAAAAATAGCAATTATTCCTGTTTATATCTC  
AAATCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAAATATAAAATGTTA  
TCCTTCTGGTTTTCAAATCAAAACCAGGAATAACGCATATCACACACAAACTCATCAATGTG  
GCCAATTTTCCATAACATT

&gt;942

ACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTGCATGTGTGGG  
GCTTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAAATTTATTTTGCCAACCCAGTAGAGAAC  
AGCTGAGCATCTTCTCATGTATTTATTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTAT  
TTATTGGCCATTTGCCGTCTGCTGTGAAATGTCTTAAATTTTTTGCCCATTTTCTAGTGATAA  
AACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTATTGTC

&gt;943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGTCAATTTAA  
TCCAGTCGGCTTATGATTTTCAAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAG  
CTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTT  
CTTGGTGAAGTAGACCTTTTATCATTAGGAACTGTCCATATAACCA

&gt;944

&gt;945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAAGGGTAATCGATG  
GGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATGAATAAATGTATATAGATAG

Table 4

AAAGTAGAGACCTTGATAAAGTCAAACCTCCTTGCCTTTACAAGTGTGTGTTTCAGCAGCCATG  
CAAGGGAGATGCCCATCTGGCAGTGGCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGG  
AGATGGCATCCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGCAG  
GGGGACAGTGGTGATGTGAAATTGATTACATCAGGGTNGACGGAGTACCTGCCCGGGCGG  
CCGGCCACCGCGGTGGA

&gt;946

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGGAAAGAAGAACAATAAATTAACATGCTATTTAGAGCTTTTCAGGGCTAA  
CTAGATTTTGATGTTGTCATTGTAGCAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCTGGGAGG  
TTTTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAATAGAAACAAGT  
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CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTTACATCATTATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTAAAGGTGAAATCTACCACCTCCTATTTTTAATATTT  
ATGTTGTTTTGACTTTTCAGTATAATAAATCATGTTTATATGTAAAGGTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAATATTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTTAAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGTCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTGCAAGGCAA  
AAAAAAAAAAAAATTGCAATTTGATATTTAAAGAGATTAACTTTTTCTCAGATTTTATTGGT  
AATTTGTATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGAACTTGGCTGAGGGGGACNNNNN

&gt;947

ACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAGAAACAAAATA  
TGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTGAGATAGTAACATTAATAGAATTCC  
TTAGTGGAAATTTCTTAATGCTTCAGTTCAATCTAAATTAGTATTAATACTTTAAGGCAGGAAAT  
CTGTCCGAAAGCATTTGTAAATTTAAAAAGCATTGAAATGAGAAGCAGAAACAAAAATATTC  
ATTTCTATGTATTGCTCTATCTATATTATATACTGATTTACTACCATTAAATTATAAAATATTAC  
ATGTTACGCGTATTGTCCTTCTGCAGTTACTGATTTATAACTTTAATAGTAACAGATGTAGCTT  
TATTACTAG

&gt;948

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGGAAAGAAGAACAATAAATTAACATGCTATTTAGAGCTTTTCAGGGCTAA  
CTAGATTTTGATGTTGTCATTGTAGCAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCTGGGAGG  
TTTTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATTCAGCACCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTTACATCATTATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTAAAGGTGAAATCTACCACCTCCTATTTTTAATATTT  
ATGTTGTTTTGACTTTTCAGTATAATAAATCATGTTTATATGTAAAGGTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAATATTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTTAAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGTCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTGCAAGGCAA  
AAAAAAAAAAAAATTGCAATTTGATATTTAAAGAGATTAACTTTTTCTCAGATTTTATTGGT  
AATTTGTATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGAACTTGGCTGAGGGGGACNNNNN

Table 4

&gt;949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAATGTAATAG  
GCCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGTAGCTCGGAGAGACGGTGTG  
TACTTATTCACCACATCATGAGATCACCTCAAAGTACGAGGAGCCCAATGAAAACCGTGAG  
CTTTCTTTACATTAACCTTTCTGAAAGTCATTTTTCTTATTCCACTTTGTGCCTTTTTTAAAAG  
CTGCAGCTTCATGGAATTTAATCCTGGTATTTAAACACTN

&gt;950

ACTTGGTAGGTTGATCTCTTTCATTCTCATGGTTTAATTACCATCTATTCACTGATTAC  
TCCCAAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGGTCTGCACCCACATATGCAAATA  
AATACCAGATATCTCTCTTGGTTATATTGCACATA

&gt;951

ACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCTAACTTCT  
GTGAGATTTTTTTCAGAATATTTTGGATGGTTCTCTCACTTTTGTATTAAAGCATTTGGGAAGA  
AGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACAGAGAAGATATGTTTTTC  
ACGTCTCTAACCAGTGTTTTTCATAGTGTAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAAC  
CAAGAGGTTAGATACTCCCTTTTCTTAGTTATATAATGGGCTTCATGTAAC

&gt;952

ACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTATAACGTAATGT  
AAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTGGAAACCATCAAATCTGTTAAGACTG  
AAAAGAATACCAATGTTTAAATATATCTATAAAATGCAGGTCAAGGGGCTAAGAAAATTGCAA  
CACTAGAAAACCAACAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTCCCAAAAAGCTGAATTTTTAGGCTTGCGTGTAAGTA  
GATATAGAAGAGTGCACTTTTGGGGATCCTCAN

&gt;953

ACCACCAATAATTATGCCACAATTTTATCCTAAATAAGAGTGATTCCCTGTTCTTTTT  
CCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAAAACATGACCCCTCCATCCAGAACC  
AAACTAACTCAGGAGTGATTAGAATCACCTGTGGGCATTTTCCCCAAACCACCCATACTC  
TGTAGATTCTGATAAGCGCTCTTAAAGAAGCTACAGCTCTTCCCCATTCCCTATCTGAAAGCA  
AGGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGANNNNNNN

&gt;954

ACCAGATGTTGTAAAATTTACTATAATTAATAGGAATTAATTAATGAATGCCAAGGGG  
CAGAGCCACACTTCCTATGATAGTTCCTTGCTATAAGGTGCTATTTANNGTTCTCTACATTTA  
CTCCATAGTAAGCTGTTGTTTGAGAAAAAAATGCCAGTTTGGTGCGTAGTAGANN

&gt;955

ACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAGCATAGCACCTCCATTGACCCAC  
ATGGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCTCAGATCCCTCACCTGTTAAAG  
GAGAGTAATACTACCCACTTACCTTTTTGGGTGTTGTGAAACACACATAAGACAGTATTAGG  
AGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCCTGTTGA  
ATTGGATGACAGTGAACCTTGCAGCATTTCTAACCTCAGAAGTTCAAGAGCAGGAGCCTGA  
GTGTTTTAGGTCCCTGGTATGGCTGTGGATTCCAGGCATGCAGCAGCTCTGGGGCCCTG  
CTTCCTACCCGCCAGTGTTCCAGCTCTTGATTAAGTAAAGGGAAATTTTTNNN

&gt;956

ACTTCTGCTTTATTCACTCTAGGTAAGAAATGTAATGGATGTGTGCAGGTGACATAAT  
TTCAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAAATATTCTTAAAAAGAAAACTTAG  
GATTTTTTTTTACAAAAGTTAACTTAAATGCATTATCTAGAATAATGTTATAAATCAACGTATA  
GAGACGTTAGTGAATAGTTCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAACA  
AATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGN

&gt;957

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGTCAATTTAA  
TCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAG  
CTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTT  
CTTGGTGAAGTACCTTTTATCATTAGGAAACTGTCCATATAACCA

&gt;958

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAAATAA  
TAATGCTTATAGGGTAAAGAAAAATTTTTGAAGCACTGAATTCAGTAACCTGGGTGATGGTCC

Table 4

AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAGTCAATGGATTAATTTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTCATCTGTAATATTTAAAAGCTGAATTTGATGATCTTGAAAAATCC  
TTCCAGATTTACAACNNNNN

&gt;959

&gt;960

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
TAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTCTAGGCCTGAAAGCCTAGGAGAG  
GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACACTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAATATGAAACAAATATTAGCATTGTGTTAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNN

&gt;961

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
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GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACACTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAATATGAAACAAATATTAGCATTGTGTTAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNN

&gt;962

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGGAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTTAACCACCACAACAACAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAAGAAG  
AACAACTTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;963

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGGAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTTAACCACCACAACAACAAATTAGGATGGTAGTGAAATGGAA  
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&gt;964

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATACAGGGAAGAATGAATTCAGAAAATCCCATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATACAA  
AGAAATAGAAATACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAATACTTATG  
AAAAACCAATTGGAAATTTTATAGATGGAAAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNN

&gt;965

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATACAGGGAAGAATGAATTCAGAAAATCCCATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATACAA

Table 4

AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAG  
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AAAAACCAATTGGAAATTTTATAGATGGAAAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAAAAACAATTAATCTT  
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&gt;966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACCTTAA  
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CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
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&gt;967

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CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
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&gt;968

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&gt;969

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&gt;970

&gt;971

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&gt;972

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&gt;973

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Table 4

TTTCAAAGCACATTACAAAAGGGTATGTCACCTTAAATACCTCAAAATTTCCCTGTTATACATGC  
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>974

>975

>976

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CCAGAAGATCACCAGGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCA  
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>977

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>978

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>979

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>980

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>981

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GGGCTATCCCTCCAGGTGAGTTAGCATCATCACCTAGAGCCAACAAGTCAAGGAGGTGAT  
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Table 4

CTGCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGGGGCTGAATAGT  
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CTCAGGACCTACAGTGCCTCAGCATCACATGCTATTCATTTGCACAGCAAAACCAGGAAGT  
GAATATGACTGTTATCCCTACTTCACAAGTAGAGAACTCTGAGGCCCTGAGAGGTTAAGAGG  
TGCAGGTAAGATTTGAACCTACGGGCTGTGTGCGGTGGCTTATGCCTGTAATCCCTGCACTC  
TGGGATTACAGGCGTGGGCCACACACCCGGCCTACTGCCTACCATTTTGCCCAAGCTTCC  
CAGTACTAGAAGAACCC

&gt;982

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTTCATCTGGCCGGTTAAGGTC  
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GCCAGTTGAGTGATTCTTGGGGAAAAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTGGA  
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&gt;983

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&gt;984

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GCAGTCATGCCCAGCTGGAGACAGGAAACCAGACAGCAGTCTGCCCTGATAAGGGACAG  
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&gt;985

&gt;986

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&gt;987

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&gt;988

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Table 4

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>989

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>990

>991

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>992

>993

>994

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>995

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TCAAACCAGACACAGCTAAAAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCT  
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>996

>997

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>998

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>999

ACTT  
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Table 4

&gt;1000

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&gt;1001

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ATTCTGTGATTTTTTTTTTTTTTTTTGGTATGGAGGTCTTACATCTTTTGTAATTTTATTCCTA  
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&gt;1002

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CTCNN

&gt;1003

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&gt;1004

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&gt;1005

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Table 4

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ATCTATATGCACTGGTTAACAGTCCCGACCGTATATGATGGCGTATTTAGGAAAGATATAATA  
CTGGCCTTTTAAATATAAAAATCAAAAAGAGCGAAAAAGAGGGGGGGAAATCCCGGGGGCCT  
AAGCCAATATTAAGGAGAAAGAGGATAAAAAGCGGTAAAAGAGCGAAGATGTAGAAACCC  
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&gt;1006

ACATAGTTCTGCTTGCATTGGTCCCATTACAATCCTGTCTAAATCCTGAAGTAAAAAT  
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AACAGGGATTTGATTCTTCTACTAGTAGTTAGGAAAGGTTGCATTAATATTCAGTAGTTAAAT  
GTGCGATTCTAAATTTTTTGAATTTCCCATGAGAGAATAAATTTTTTCAAAAATATTCCAGT  
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&gt;1007

&gt;1008

ACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGGAGGCTATTCAAGCTCAGCATC  
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TTGTAGAGGAAAAAACAATCTTATCGAATTCCTGCTCTTATAGCTGATTTAGCTATTAG  
GAAACATCCCAAGTTGAGCTTTTCTATTCTAGAAATTCAGATTTCTTTCCTTTTTAAAAATTT  
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GTCAAAAATAAAATCATTTTA

&gt;1009

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CAATGTTACAGTCAAAATTGCCTTTCAAAAATTCCTTAAGTCTACCCATTTTCAGACTTAGTGA  
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&gt;1010

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CATTTTACCAGGTTTCTCTGTTGTTGCCAAACCTGTCATTTTATTTGGTGTGGCTTCTTGGG  
AACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAACAAGGACAGATGCAACAGAGG  
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&gt;1011

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&gt;1012

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CTTCTCCTGACAAGCTGCGAGCACAGGGGACAGCACAATCTGAACTCTTACAGATACCAA  
CAGCAACAAAATGAAAGCAGTTATGGTGGGCAAGCATTAAATCTAAATTTTTTTAAAGGAC

Table 4

AAGCTTTTTTATATTTGACTCCTACTAATAATAAGGATTGGTGGGGGGAAAGAGAAAATAAA  
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>1013

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GGTTAACAATTTAGCATCTTTGCCTTCTTTTCTGTGCACTTACGTTTTTATGTAGCCAAGATC  
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ACATAATTTGTCATTCAATTGTTGAAATTTTTAGGTTACGTATATTTTCTCTTATAAATATGTAA  
ATATGTTTATAAAAAAGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGTTTCCT  
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CTGGTACATATATGNNN

>1014

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CCAAAAATTTATTTTCTACTATTTACATATTATCCTAGTGGATATTACATTACTTACTGAAGCC  
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ATTTGTTTCTCGATTACATGTATGAGATTTTCAAGATTTATGAGATCATAGGTCAAGTGAAAGG  
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GCCAAATGAAAGGTCAAAGTCAAGTGACAGACTCAGT

>1015

>1016

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ACTCCTGCTAAATGTTGCTGTGACTTTTAAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGG  
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ATGCTAGCAGACTGTTTCANNNNNN

>1017

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GCTTTGATTCTGCACTCCTGCTCAAAAAAATCTTCAATGGCTCCCCACTGTCTGCAAGGTAA  
AGTCCAAACTTTGTCACCAGTCTTCAAAGCAACCCATGACTATATCCAAGACCCCAAACCAT  
ATTTCTACCTTATAGCCAGTCTCCATCTTCCACCGCAACCAGAATGATAGTTGAATTGTACTC  
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AAGCTTTTTCTTTCTGTCAGTGCCCTACACTGTGCATGCCTATCAATGAAACCCTGTCCATC  
ATTAACCATCCAGCTCAAAATACCACCTCTCCACAAAACATCCCTGATGGCCCAGCCAAATGC  
CCCTTTGCTCTGAATTTCCATGGGACTTTATATCACTCACATGACACTTACAACATACTGCCT  
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>1018

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GAATGGAGTTTGTGGAAAGGTAATAAGTTCTGTGGAAACAAGGAAAACCAAGGCATGGAGGT  
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TTAAGATAAATTATATAAATAAATTATAAATGTGTGT

Table 4

&gt;1019

ACTTAGTTACTCCTTGCCCATAGACGTGTTTGACCTAGAAAAATTTCTTATACGCAAC  
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AAGCTACAGTGGGTGAATTAACAAATTTTACTTGGAAGCTACTTTATAGCCACTGGGCTG  
GATTTTCATATACAGAGTTCTTGCCCTTGGGAGTTTTACAACCTGCTTAACACTTTGTCTATGCT  
AGAATACATAAAAAAAAAAAAAAAAAAAGTACCNN

&gt;1020

NNNNACAACACACATACTTTAGAGATAATCAGAAGCAAATATTTTTTAAATGCCAGA  
ATATACACATAAGCATAGTTAAATAAAAAAAAAATGTTCACTCTGTTGATGTTAAAGTCCATGGA  
CTCAAATCTCTTTGGACAATTGTGTTCAAATTTTTCACACTGAGATATATTTACAGGTGGGAT  
TTATGTTAAGGCCAATATACTTACTCACAGAGACACAAGAGAATACCAAAGTACCTAATGCTT  
TCAGCCCAGGAGCAGAAAGAGAAGTGGGCTCTTTGCTTTGAGAGTCTCTGAAATTTATTCAA  
TACCCTGGGACAAATTAATGAGGTAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTTT  
TGTCTCCATAAAACAGGCTTTGACCATTAAGGTTTATTTTTAAATGGGTAAATTTTATTGTAA  
TACACTAATTTTAAGAAAAGAATTAACCTCATGGCTTAAAGCAAAAACAGACCTTGGATTTT  
ACCCATAACTTTAAGGCTGGTCATTTTAAACCCTGATTTGACACACTCTTATTATGGTGTCTTTT  
CTCCTTATTTGGCTAAATATTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAA  
GAGAGCTAGAGTGAAAATGTTAAAAACAAAACAAAAAGACAGCATACTGGCTACCAGTTTTT  
CTTAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAAGG  
ATATTTCTTCACTGAAAGAAAACCTTACTTCTACATGTAAACCTGCCATATACTTTTTCAATTAA  
GCAATGGATCAAAGNNNNNNNNNNNNNN

&gt;1021

ACTTACAGTCTTAAGATATCCATACACCCCCACATCCGTCTTTGTGCGAGAAGATT  
ACTGAAAATTTAATTCATTTATGTCATTGGATTTGTAAAAAACCCTTCTGGATTCAAAGATG  
AAGGCCTCACTTACTTTATTTTTGTCTTTTACAGACCCCTTATGTAAATGCCTCAAGAGTAA  
GAATCTTGCTCAAGTGATTTTTGTATCTCCAATGGCTAACAAGGAGCCTGACATAGAGTAGCT  
GCTTGGTAAATATGTGTTCAATTCATTCAACAAATACCCCCAAGNN

&gt;1022

ACCGTGTGGGCCACTAATACATAAGCATCTGTGTTGGCTGGGGGTAGGTGTAGGGG  
GTGCTTGGGGGAGAGATTTAAACAAACCCTTTCTCTACTTGCAACATCTCTTAAAGCTTGTC  
ATCATGTTACTTCCTATTTCTTTAGAGTTCATTTGTTTAAAGACGGAAACGTGCTTCATCTTGT  
CGTTTTTCTGCATTCTTTGTAACTTAATATTCTAATTAGCCCCAACACGGAAAAGAATGTAA  
CACAACGTCTTAGTTGTCCATAGAGTTAGAATCTATCTATTAACATGTTTTAGTAATAACAA  
GAGAAATAATAAAAACACACCTATTATGAGACGCTGCCCATGCCAATAAATTTGAAACATTAC  
CAGGAATATAAAGGAAGGAAGGAACAGGTGGAGACACTCAN

&gt;1023

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GAAAACATTAATTAATTTAGAAAATGTTGTTTGAATATATGTACTTTCTCTAAGTTGGTGAGA  
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&gt;1024

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TTGAAGATATTTGGTGATGCCAAATTTAATTTAGGATATTATGTAGGTAAGTATTCTGTCAGTT  
CATTTATAGTGTGAATTTACAGGATTTAGCCTTAGTCCGAGAAAACTGGCCCTGGCCAG  
ACTATACACCAGGCAGTTCTAAACATATACAATTCATGTTAAGGAAAAACAGATTTACAACCT  
ACATTACTCCTAAATAACATTTATTTCCATGTGACTTGCAATGTCTAAATAAATGAATTTGGCT



Table 4

TAGTAAGGCTTTCATTTATCTTCATCTAAACGCTTTTCCACCAGTACTCATCACAAGACTCCC  
CAAGGTTATGAAGCAGATTGATATAGAACTCCATTTCTAGGACAAAAACGAGGCACCTTGA  
GAATGGACCCAAGCCATAATAAACTAGTAATGCATTTTCCCACACAACCATATAAAATACAGT  
GAGCCCTTGATCAACCTTTGCACAAAAAGAATTGCTCATTAAGTCTTTGATTTTTTAAAAAATG  
GCACTTGTTTTCTAGAAAGAGGATCTGCACACTAACTATTCGATTTGTTTGAATATAGTCAG  
ATTATTATGTCTGTGTTTATTAGGCTTAATTTGAAAAGATTTTGGTTAGTATCTCCACTTCTAT  
GATCAAACACTATAGAGTTCAAGACCAGCCTGGGCAACATAGTGAGANNNN

&gt;1025

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AACACACACGCACCCATGCACGCACACCGTCGTTCTTCATCCGCCTGGTTCCGTGCACTATT  
CCAGGACCTACAGCAGTGCCTAGAACACAGAACATCCATTAGCAACATTTGTTTAATGAATTT  
ATAGTGCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAGGCCAGGCG  
CGGTGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACTTGAG  
GTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCGAAACCTATTCTTTACTAAAAATACAAA  
AATAACCTAGGGCTGATGGCATGTGCCTATAAN

&gt;1026

NNNNCGANAGTCTTCTAGNATTAATTAACCTAGTTGAAAGTGTTCTGAACTTGCCAG  
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TTAGGTTCACTTTACCCTCATGCTATAAATTGGTGGTGTCTGGTTGGACTTGGTGAATCAGG  
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ACTAAATGTGCATTTTAAAGAAGGCATGTCTAAGGATTGAGGTAGTAGTGTGAGAAGCAGTAC  
TCTGTTTCTGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAGTGGGGAAGGGGCAG  
GGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAACAATTAAGATCATGTTT  
CCTACTTGATTTTGTAGTTGCTAGTCATTTCTTAATCTAAGCACCCCCTATAATTTACCTATGTCA  
TCATGCAAAATCACCATCGGTAATAATGTGGGGGCGGGGGAAGTCTATACAAGAATATTAAG  
GCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTGTGGTGCA  
AACAGCTGAAAGTAGAAGTAAATCACAACGTAATAAGATGCAACTTTGGAGGAGCTCAAAGC  
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ATAATCAACTGATGATTTTCATTTGAAAACCATAATTAACCTAGCGTTGTTTGTAATAAATTTT  
TCCATTTATACTTTTAAATGTTTATTAAATTACTTTTCTCTATAGATATGCAGATAAGATGTTTT  
AAATGTGTAAGTGGTATAAATGTCCCATGTGTCTTTATTCTAGAGCATAAGAAAAGATGGGA  
AGCTACCTCAAACCTGTTTTGAGGCAAATGTAGTATGAATCCCTAAACATAACACCAGTACTG  
CTAAATGACAGTTATCTAATCTCACTGATGAACAAGAATANNNNNN

&gt;1027

ACTAATTCCTTTCTCTTTCTAGACCGATTCTAGTTTGTGCTTCCCTTTCTCGG  
AAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGC  
CAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCCTTTGTCCTTAAGAATGAGGTTTGA  
GCCCCAGTTCTTCCATGTTAGGTGATTTCTTGACGCTCTTGGTATCTGCAGAATTAGTGTGAA  
TGCTTAAAAAATATTAAACAGCTTTATATCATGAAAGTTTTAACATGN

&gt;1028

&gt;1029

NNNNAAACATTTNAGACTCACTGTGTAGCCTTCTTGGGAATCGGGAATTCGCTTAATG  
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GTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATA  
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&gt;1030

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CTCAGGGGAGTATAAGCTGAGGCAAACATGGACTCATTTGTTTTCTAACCTTCAGGGATTATT  
GTCCATCATTGCCTGATGTCCAGTGTCTTGAAGCAATT

&gt;1031

ACCATTGTTTTGTTCAAATCACAATTTAAATACTTCGTGATTTTAGAAATAATGGAGC  
CACGTTTTCAACATTAAGGTGAGTGATTGTTGAGATACATTTGGCACTGTCCATAGGTTTATG



### Table 4

GCTTCCAAC TTGTTTAAGACCAT TCCAGAGTGAGAGCTGATTTGCCATGGTTATGAAGCTTT  
CAGGATATAAACTATAAGAATGACAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCACT  
TGCAACTCCCATTTATGTCTCTAGGGATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTT  
GGTCAGTAAGAGTGTAGGTAACATATAAATATTAATGTTTCGTTGCAGTTAGTGTGGT

**>1032**

[illegible]

**>1033**

ACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAGATAGTTCCAAAAC  
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CATAGCTATATAGAGGTATTAATTTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTTAGAG  
TTCACCAAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGGGATTTGAGTATA  
CATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACTTCAACATTGACAGGCTCAACAGA  
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AGN

**>1034**

**>1035**

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GAGGTAGTGGAGCCTTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGCACAA  
CAGATA

**>1036**

CCCACGCGTCCGATCAAACCAGGAGCAGGTGCAGCCCGAGGCCCCCCCCCGTGG  
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CAGGCTGAGGCCAGCGAGGTTCCAGTGCCGCGTGTGGGCAGCAGGAAGCTGCTCAGGAA  
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TCCGGCAGGCCCCCAACCCTTACTCGTCGGAAATCAAGGCCTTTGACACCCGGCTGCAGAG  
AGGGGAGCTCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGGTCTTGTGGGAGGCTCG  
GAAGTTCGAGCTGGACCGGCATGAGGTCATCCTCTGCACCTGCTCCTGTGCAGCCTCTGCC  
AGCCTCAAAATCCTGGACGTGAGGCAGATCCTTGTTGACGAGGCAGGCATGGCCACGGAAC  
CTGAAACCCTCATCCCCCTGGTGCAGTTCACACAGGCCGAGAAGGTGGTTCTTCTCGGAGA  
CCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCG  
GTCTCTGTTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCAT  
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GCCTGAGGAGGCCGCCAGTGTCTGGGCCACGCTGGCAAGGAGAGCTGCCCTGTCATCT  
TTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACGAAGGGAATGAGA  
ACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACCAAGCAGCTGACCC  
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CTGAGATCAGCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCCTCGTATCA  
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GGACCCCAACCAAGTGAATGTGGCTGTACGCGGGGCCAGGAGGGGCTCTGCCTGATCGG  
AGACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCT

Table 4

CAGCAGACCCTCGTGCCTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCC  
TGAAGAGCCCTCTCCACCTGCAAGGTGCCAGGACTGGGCAGGGAAAGTCCACGGGGCCCC  
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CAAAGCAGCAACCTGCGACCAGCGACAGTGAACACCAGAAAGATCAAGGACCAGACACCAG  
CAAACATGTAAAGAGAATCCGTGTGAACGGAACAACAACAAAACAATAGAACAACACAACAG  
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AGCAGCGCACAGCACAGACATCACAGCAGCCCCTACGCGGCCCGAGAACCCGAACAGGAG  
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AGGAAACAAAGGCGCAGAGGGAAGAAGAN

&gt;1037

ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAGGACCTGG  
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TTGCTCAAAAATCTCTGGGAGACAGTAATAGCTTCTTGGGCCTGACTGATAAACTTTTTGCCT  
CCAGCAATGGAAATGTGGGAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTT  
GAGGTAGTGGAGCCTTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGCACAA  
CAGATA

&gt;1038

ACTTTGACTATTTTTTAGCAACAAATTACTTTTGACACACAGCACAATTGATTTAACAC  
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TTACAGCATAGGGTCTCTTGTAGTCCTCTTAGTAAAACTATTGTGACACTTCCTTCTTTCTCC  
AAATATTCGGCCTGGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCTACGGAAACAACAACCTTTCTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTAT  
ATTAATAGTTATATGGTATTTTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAGAATATAGG  
CTAATTTGGAGCATAACACTAACCAGCATGAACCTAAGTGAGTACN

&gt;1039

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CTCATGGAATGAAAAACACTTTTGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTT  
GCCAGTTGAGTGATTCTTGGGGAAAAAAATTAGCATTCAAGTCCAGCTCTCTAAAGTGTGGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTGGAAGCCTGCTTCTCTGTGCCTCAGCCGGAACCTCAGGTTA  
CTCAGTAGTCATTTGCTAATTTCTGAGAACGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAAACTTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACATTCATTCACTCCCTGA  
AATGTACAACTAGTTATTGCTCCCTTTTTCATTTGAGGATACTGATGCCAGATAAGATAA  
GTGGCTTGCCCTGGGTACATAGCTTGTAATGCCGAGCTAGCATTGAAN

&gt;1040

ACTCTTATCAACTGTTTTATAGATGAGAAAACATTAGCCACAGCTTAGCTTATTTGAA  
GTCACAATAATATTAAGTAAGAGCAAAAGCCAAGATTCAAATGTAGATTATTTTACTACA  
GACTGAGAAACGAATTAAGTAACTAGGAGCCTAAGATACTTTCTGGAATTGAAATGATACATTATA  
TATACCTATAAAGATAATTGGCTATAGCTTCCTAACTACAAATTGTCATAAAATGACTTCTG  
TCCTATATCAATTAGAACTGGTATTAATAATTGAGTATTATAAGACAATAGAATGN

&gt;1041

NNNACTGCAGGGCCCAAGAGCATACAAAGCTAGTTATTTGGATCCAAAGTTGGTCAA  
GTGTGCAGTGTTTAGACATCATGATCTAGGCAAACAGAATTCCTGGCCTGAAATATGTCCT  
AGTTAGAAACATTAGAAGCTTTTCAAGTAAATAAATAAAAAACCAGTCAACCGTATTCTTATT  
TCTTCGTCAGAGAATCATGTGTCGTTTGGTTAACTTCTGCTGGATTCTGGATGGGAGTTGT  
TGAACATATTAATCTCATTATTTTCTGTAGAGGACAGGTTGTCCCCCCTTCTCATTAGCGC  
CCTGACTGCTTGTTAGGGCTCTCTGCCTCTGGCCCTGTGACCAGCACGGTTGCTCCAGCAG  
GCAGCAGTGCGTGGGCCTGCTCTCCATGGCAGAGACAGGGCTGTGAAGCTTGGGT

&gt;1042

ACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC

Table 4

ACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGGTCAATTTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCTAACATAAACTTCTGAGATACCAGAAATTTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTGTAGTTTGAAGATCAGATATTTTCTATTCCATATCTTAACTTT  
CATGTTAAATTCTAGTTCTGACAATGTAGGGTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTTCCATGGTCAAATTATTAGTCATTGCAAAACAGAAAAGTTTGA  
CAACTGGAAANN

&gt;1043

ACCCGTTTGTCCATGGCTATTCCAAATACCCCGATGTTTATTTAAATGTATATATAAT  
CAGTTACATAAAAAGAGGTATGCTTAAATTCTCATGACTCTATGGTTGGACCTCTGTGGTTGG  
AGCAGGCAATAGAAATGTCTGTAATTCATTTAAAAAAGTGACTTTCCTACCTTTAGATA  
GTGAGGACAATCTGTAACTCTTTGTGTTGATAAAAGCAAACATTTTCAGGGCACGGTGAAAG  
AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGGAGTTAGGACCAAATTAAG  
ATTTGAC

&gt;1044

&gt;1045

NNCGTCCGGTTCTGACCTATTCCAAGAGTACAGCCATCAACAGTTAGTCCCAAGAGT  
TGGAGGCATTGTTGGGAAAGAGATTGCAATAGACTGGTGCAGATCAGTTACCTGAAGCTC  
CTGCCCTTATCTAGGCCTGGTGATGCTGCTGTGTGCCAGAAAGCCAGTCATATGGATGTCTT  
GACCTGTCCAGCACACCTCAGTAGTAGGAGATATGGGTCTTTGGAATGCTTTATGTGTGA  
TGAGGATGAAACAGTTAAGTGCTACTTTCTCATCCTCGGCCTTATGACATTAGTTAGTTGTG  
AAGATTTTGCAGGGAGGTATTCCCTCCTCTACCCTTTCTGTCACAAGCCCCTCTCATTCTCT  
GAAAAGGTTCCATACTCCAGTCCCTACCCTCAAAGAAAGATTTTACTAAGCAAAAGTATCTAT  
GGCTCTCTCTGTTCTCCTTGCTTTAGCTAGCACAGCTAAACTGGGATCTCACCAGTCTGACA  
GGGCAACCTCCAAGATTCACAACCCAGGAAAAGTACTGCTTTGCGTAAGTTTAAATCAAGACC  
AGAGCAGAGACAGGACACAAAGTCAAAGAAGTCAAGTCAAGCAGC

&gt;1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTCCATTTAACAGCAACATTCAAATA  
TTTCCCATTCTGCTTATTATTCTCTCTGAAGGTGATACATAGAAATATAGGAGCAAACACAG  
CAATGCAGGCGCTCTATGATCTGGTTTGCTCACATAGATCTTAAAGGAGAAGAATGAGGGA  
TTTGCCTACAACCCACAGCCAATCTATGTGGACACAAAGGGTGACTTCTTCTTCTATTACGT  
TCCTTGAGGTAGAAATGGTAACTAGCATGACCTCGAATCATAATTTAATATCATTCTAN

&gt;1047

ACATTATTGGTAGTATCTCAGAATCCTGCTTAGCTTTTGAGATAAACCAAGTCATGAT  
ATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACTGCCAGTATTTGCCTTTTCA  
ATATTTACTTTGTAAGAACCTGACACTGTAGGTCTCACCACACCAAAACCTGCAACATAAAC  
TTCAATTTTGGGCAACTCATAGACCAAAAAGCTAAACAAAACAAAAGGAAAAAACCCCTCTA  
TATCAATCACCCTGCTTGTCTACATTTAATTTGCTTCATTCANAATAAGCAGTCACN

&gt;1048

&gt;1049

GGGGACATTTAGTTCGGGCATGAAAAAGAAGTTAACAAGCAAAGGTACCTATAAACA  
AAGGCATCATAAATAGATATAAAGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAG  
GCTGACTCTCCAGTTGCAGATTTTCAATTATCAGCTCATCACACCACCGAAACTCTCTGGTGAT  
TTGCTATCCACATCCATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGG  
TTAAATGGCAGGTGTGTTGACAAGAAGTGTCTTAGGTACCCCTGCCTGCTGGGCATCACA  
TTCTTCTTGGTATATATTAAGAACAAGTTTGGGCCAGGCACGATGGCTCATGCCTGTAA  
TCCCAGCACTTGGGGAGGCTGAGACAGTGGATCATTGGCGGTGAGGAGTGCAAGACCAGC  
CTGGCCAACATGGCAAAANNN

&gt;1050

&gt;1051

ACCCATCTCTTCCATTCTGGGAATCTGGGAACTAAGCCTGTAAGTTGTAGCTTGTA  
GAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCATTAAATGCACAGTTAAATAA  
ATAAAATCTATTAATAAAGAGCCTAAAGAAAGAAAGATGACATTTACGCACATATTGGGTGA  
ATAAGTTGTTTAGTCCAGCACTTCTCAATTTTGTAGTGGATATGTGAATTGCCTATTAAATGC

Table 4

AAATTTTAAATTAGTTAATCTGGGTTGGACCTGAGTCTGCGTTTCCAACAAGCTCCCAGGTGA  
TGTCATGCTATTGGTCCAAAGACTATGTTTTGTGTAGCAAGGGTTCTAGATACAATTACATT  
AGAAAAGATCAGAGAAAAGTGGAGTGATTGT

&gt;1052

ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCAAAATGCTTA  
ATATGGCAGTATAATAATTATACTAGATTTACTTCAAACATAGACATAAAGAAGATTACATG  
CCTGTAGAAGTTCATTGAATTAGGAATCACATGCTATTTATTTAGCAGATATCTTCTTAATTA  
AATGTTTGACCCATGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATAA  
TCTATATGATCTGAATACCATTTCCATCTTTAAAATTACATATTCCT

&gt;1053

ACAATCAAAAAAAGACAAAAAAGAAATGGTGTTAAAAGCCACAGTAAACATAAACCTC  
ATATCAAGTATAAAACCACACACACTTTGCTCTTCATCCGGACAATGCCCAAATTATACTGA  
GGTATTGGGGTGGGCTGATACCTTCAAACAGGGAGAGAGGGGACCATGTTCCAGGAGGTGTAT  
TCCTCGATTTAGGTGGTGACTGAATTTTTTTTTTAAGACAGGGTCTCACTCTGTCACCCAGG  
CTGGAATGCAGTGACGTGATCTCGGCTCACTGCAGCATCAACCTCCTGGGCTCAAGCGATC  
CTCCACCTCANN

&gt;1054

ACAATGAAAATTACAAAATACTGTTGAGAGAAATTAAGAAGACAAATAAATGAAAAG  
AGACGGAACATGTTTTCGCTTGTAAACTCAGTAGGATTAAGATCTCTCTCTCCACGACTC  
TATAGCTTTAAAGCAATCAAATCAGACTGGTTTTGTCTGAACGTTTTTGAATAAGTCAATGG  
CTTATTTCAAATTCATATGAAATTTCAAATGCCAAAGAATAGGCAAAATATTTAGAAAAGAA  
GAAAGATTGAGGATTGCAATAACTGACTTCAAACCTCACTAGAN

&gt;1055

NNNNNCAGGCTAGAGAGATGTTGGAAATAGTTGTTAAATTGGCTTAACTTTCTCAGG  
ACACCTTGTACCCACCACGTTTCATGTCTCCTCTAGCCAATAAAGTTATTAACACAAGAAC  
CCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAGTGCTTACACAGAAATGGCC  
CTTGATAAAATATGGGCTGAATGAATGAACATATGAATTTGACACTTTGAGAACTAAATTA  
GTTATTTCTACTAGCATTTTTAACACAAGAATGAGATTACTTATATATTAGTAGTAAATG  
TTTGCTTTATTCATTTGATTGGCAAATATAATGAACTCAGTGAACTTGCCACCTTTTTCT  
ACATGTTGAAATTTTCAAAAATCCATAAGATTACTCCTCACACACACACCTCCAAGTATCCATA  
GAGATGGACCTACTTCATACCATTATATTATAATCCAATTATTTCTAGAAATCCCATTGATT  
CAGGGAATGAATTTGATAGCCAGGAGGCATTCCACTGGCTTCTTAAAGCN

&gt;1056

ACATTAACCTCACTGACTTACTCTGGGTTGCTATTGTATTAAAATTCTGTATAGACATTA  
CGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAAATAAAAAATTCTTAAATCTTTAGTGTGG  
TGTCTATTAATTTTTATGATGATTTACAAGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTT  
TGAAGTTAATAAGAGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC  
TTATGAAATTTGGAAAACGATATTTTAGAAAGCTTTCTCTTGTGGCTGGAATGAAGN

&gt;1057

ACAGCTTGTTGAGGATATTTCTTCTATTTTCTTTGAGTTCTTGTTTCATATTCTAGTT  
AATTTCTAGTAGTTCTTAATGTATTTTAACCAATAGACTTTTGTCTTCTTCTGCTTATGTATTC  
CTCGTAAATGCTTTTTGTGACTTGTCTAAGTATAAACAACCTTTACTATTAGCTGAAAATTTTC  
ATTTTAGTATGTCATCAATCTTTTTTTGTGTTTAGTATGATTAAATGTTTTTCACTTGGAAAGA  
TATGAATAGTCTACTTCATTGATTTTTTTTAAAGTCATTTCATTTTTTATTTTTGTAGCTACAAAA  
TCAN

&gt;1058

&gt;1059

ACTTTAACAAATTA AAAACAAATTTTAAATTTAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAAGAAAATTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATATTCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCTTAATGTCATAATTCAATTNTCCC  
TGCTTCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN

Table 4

&gt;1060

CCCTTCGAGCGGCCGCCGCGGGCAGGTACAGTTACCAAACCCATCCAACCTAAAAAT  
TTAAGCTTTTTGCATTTTAGTGGATGCAAATTGTGTCTTAGTAAGAAGAACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACATGT  
ATAACTACAGTAATTTTAAAACTGTTTTCTTGATAAGTATAGAGAAATGTACCTCGGCCGC  
GACCAC

&gt;1061

ACTTACGCTTTATGATCTTGAATATTTTCAGTGTTTAAGGAATCTCTTCCTTCTTTGAT  
CTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACAAGGAAGTTTGAAATAGAAAGCCAG  
AACCTGCCCCCAAAGATCTGACAGTAGTAGAAGGAGATCCATTATTAAGAAGGTATAATGG  
CAACANAAGAATAATCACAAATTATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGG  
AGATGAGGAAAGTGTTAGGGAAN

&gt;1062

ACTTTAACAAATTAACAAATTTTAAATTTAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAAGAACTTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATATTCAACTTTTTCAACAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCCTAATGTCATAATTCATTNTCCC  
TGCTTCCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN

&gt;1063

&gt;1064

ACTTACTACAAGCAGCAAAAGGAAGCTCTAGAACAAGGAATTAACACAGTGTTTTGT  
TTCCAATCGCAGAAGAGGCCATGAGCACCATATGTGTGTCAGGCTTATCATCTGAACCAAAG  
AAAGGCCAATCCTTCACCTTTCTTATGACTCTTATAGGCTGCAATATTTCACTTGGCCATAAA  
CAACTTAATATCTCACACCTAGTAGTATTGAGTGACACAGAAAGGGAAAGAGAAAGGATGAA  
GAACAGAGGAAAGAGAAATAATTTCCCAAGATACAAATTTAATATTCTTCCAAAGCATAAGA  
GCAATTAACAAATANNNNNN

&gt;1065

&gt;1066

ACCCACATGATCCCAAAGAGGAGGGGCCCTGTATAACAAGAACCAACCAACATAA  
AGCAGTGACTACAGGCACCATGACAACAAAAGGAGTTTTAAAGTGATCTTCAAATAGCACA  
CAATTTTCCAATTTAAATAGTTTGGAAATGAATCAAAGGGAAAAAAGCATTAAATAGATACAACT  
GAATTTCTCAAAGTATATTAACACAGCCTACAAATAATCCTCAAATGTACCN

&gt;1067

ACCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATGAATTTGCAGAAGGATTAAAT  
GTGTGTTCTTATTTGTGCCTTTGTATTTCTCCATTAAGTAGTGTGTTGGAGGCTTATTAGAAT  
AAGCTGAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAACACATNAG  
GTAGGAGCCNN

&gt;1068

ACTATATTAGTGTAGCAATTTTCCAAAAGCCATTATCTTAGAGGGCTAAATGATTTT  
ACCTTATCAATTCCTCTGTGAAAAATATCTCTAAAGAGGTTTTCTGCTGGAAAATATTGTTG  
CTGTCACATTGATATGCCAACAAAAGCTAAGCAGGGAAGTCAGGCCAAGAAATATCTCCCTG  
CAAGAGAAGGCATCGCACATGTATCTCTCCATGCTATTTAAAATTGCATTCTGCAACATAGAA  
AGGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACCTGCTTTCTTTGGCCTTTACACACT  
CCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATCTGCCTTCTGTTGACTTAGTGTC  
GCAGGTGGAGGGAGGAAGGAGGGCATCGCAGACATCATTCTATTATCTCAACCTTGCTTTCT  
CGGATCCAAAGGCCAAGAAGTTGCTGCTCCATGCCCTCAGAGCTCTAATTTGGCACCTCTTC  
CTGAAATGAGAGCTTGAAAGGGCTTCTGCTCTGGGTGAAACCGGCTCGTGGCCCGGGCCAA  
TTCTGCTGGCTTCGCGTCTGTGAGTGTCTCTAATCACTGTTATAAGTGTGGTTCTGCGGAA  
CATCTTGTAATATTTTCTATTGCTCCAGCAACATCTCCTGTCTAGACAATCTAATTATGAA  
CACAGAGCAAATAGCTGAAGTGTATGCCGCCCCCAAGGGTGCATAACTCCAGGAATGGGG  
CTAGGAAGACAGGGGAGGGAGGTGTGTGTGATGTTTATTACTTTTTTTGTTGACCTGACCAGA  
AAATTGAGTGCTCCAAAAGAATCTGGCTAACTTTTAATTAAGAAGAAATGATCTGGTGGAAGC

Table 4

TGGCATTITGTTGTTTTCCAAAGTCAGTGGAGGATTAAAGGTACTGATGTGTTTCCCTCTAA  
TCACGTCTTTTTCTTGGCTTCAAAGGTGGTTTGTGGTCTTTCGCGTAAATAAGNNNNNNNN  
NNNNNNNNNN

&gt;1069

ACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC  
ACTGGATATTTTTAAATTGTAGGGATGTCCTTTGCTCTGGGTCAATTTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCTAACATAAACTTCTGAGATACCAGAAATTTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTTCTATTCCATATCTTAACTTT  
CATGTTAAATTCTAGTTCTGACAATGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTTCCATGGTCAAAATTATTAGTCATTGCAAAACAGAAAAGTTTGA  
CAACTGGAAANN

&gt;1070

TAGTGAACCTACTCGGCCTAAAAAGAAGTATTAGCAAACCCAGAAGCTAATACTGAA  
AATTTAGCGAGTCAGCTTTACAAAGACACGATCTTATCACATTTCTGTTAACAACCTAAAAGG  
CCTTCAATTTTCCAAAATGGCCGGATCTTCATTGTGCTATTTTAAATAAGTTATTTTGGAAATA  
TCTTTCACAAGCAATACAAGTGGATTTTAAATCAATTGATACTTATAGAAAGAGTTTAAAGGAAA  
AATCTACCTCCTAAGTTCAATTATTCACAAGTGTTGTGTACATTATTAATGAAATTTATCTAGT  
CCTTGCAAACCTTGTCCTATTGATTTTCATTAGTGTAACCTAAAGAGAGAACTTCACACTGA  
CATTTATAATTGTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCA  
GGAAGTTCTTGAGGCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCAG  
CTACATTTTGGAAAGAGGGAGAATTAAGTTTTTGTGTTGAATTTATTATCACTAAGTAGTGT  
AAAGCTCTTTAGATTCCAAAAGGAGGAAAAATTGCAGGTCCATTAAATCAAATGCTGCAAAC  
TAAGACNN

&gt;1071

ACCAAACTGAAAAAAGATTGTGTATCCAAACATTATTTACATAAAATGTATTTTGAT  
AAAGTAAATTCCTAAACCATGGTGCTCAGAGGTTGTAACAGTCCATGTAAGTTGAAGAAAA  
GAGTTATCAATCAATACGTGACTATCAATCATTTATTTAATCATTATTTAGTTTTACANN

&gt;1072

ACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTTCACTCTTGTTGCCAGGCTGGAGT  
GCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTCCCGGGTTCAAGAGATTCTCCCGC  
CTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGTGCCACCATGCCTGGTTAATTTGTATT  
TTAGTAGAGACAGGGTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTG  
ATCCTCCTGCCTTGGCCTCCAAAAGTGTGAGGATTACAGGCGTGAGCCACCACGCCCTGCT  
TAAGTTTTAATAAGATCTCTTGGCAACTTTTTACGACTGGCAACTTAGGTCTCACAAACACAG  
AAAAGCTTGCTTTTAAAGTATATTGTCTTTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAA  
AATGATTTACTTTATAAATGCATGCACTGAGAGAAAAGATATTTGAATGATATACANCCACAT  
GTTAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAANNNNNNNNNNNN

&gt;1073

&gt;1074

ACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTGCTAGGAGCC  
CCGGCTTCTTCCCTGACCTGCCCGTCTCCTACACCCTCTGGTCTGCTCCACACTGGTCTAA  
TAACTGGTGTTCCACATTCTCTAACGTGCACAACACAGTCTGCCCCCGTGCTTTTACCT  
CCTGTCCATTCTCTTATAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTTGCTCATCN  
NNN

&gt;1075

NNACAGCCATGTGTACTTTATAGAACTTAGAGGAAAAATCTAGTATTTTGTGTTTTCC  
TATATATTTATTGTTTCTATTGCTCTTTCTTCATTCTGAAGATGCGGCATTTCTTTTACGCT  
AATGTTGACCTTAGCTTTTCTAGCAGATCAGTCTGCTGGGGATACATTCTTTTGTTTTTCTT  
GAGAATGTATTTATTTTACTTTCAATTCCTAAAGGATATTTTAGGTGGATATATAATTCCGAGTA  
GATGCTTGCTTCCCTGAGCACCTCAATGATGCCATTTAGCTGTCTTTTCACTTCTCTGATTC  
TGGTGAAAAATCTTTGTAATGTAAACCTTATCCCCTCTGTGTGGTGTGTAATTTTTTCTAGC  
TGCTTTCAAAAATTTTTCTTTGTTTTGGTTTTGAGCAGCTTAATTTGATGTGTATCTAGTCAT  
TTTCTTTAAGTTTATCCTCTTTGAAGAGTACTGAGCTTCTAAATCGGTAAATTTTTGGCANN



Table 4

&gt;1076

ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCCTTGTATT  
GTCAGGAATGTCTAACATTATTTGTCACCTCATTGAGAAATTAAGTAAATGAGATGGGACACAAATCTG  
TTTTGTGTCTGATAGATTCTTCATGCAGAAAGAATAAGTAAATGAGATGGGACACAAATCTG  
AGTATAGCATTGTCTACTTTTTGCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGG  
CATAACAGAATCCACAAATCCAGATTTAAGAAATAGGTCTATATAAAGCTTATTTAATATTG  
GTATANNNNNNN

&gt;1077

ACAGAGTAACCATGACTTACTAGGTGTTATGATGAAGGTGTATGTGTGTGTATATGT  
GTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAGAGTTTTAAGCTGCTCCTGTCATT  
TATTGATGGTCAAAGGTTTCTTTTGGCTATTGCTGGACTCTTAAGATTGTCTTGTAATTGTCTT  
TTTGTGTTGTTGAAAATTAAGGGTGTATATAAAGGTAGTTTTTACCCAGATCTTATATGTGT  
GATAGCTCACGTCTGTAATCAGAAACCTACTGTTAATGGCCACCCAATTGCCATTAGCTTCC  
TAGAGGGTGATTTAATAAACTATCTTCTTTAAACTCATTTAAATAGAGACATGTTTGCATA  
CAATGGATTAATGACGTTTTACACTAACCACAAAAGTCTGCTGCACTTTCTTTGTAGGCC  
TAACATTCATTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTAN

&gt;1078

NNNNNNNNNNNNNNNNNNNGCATTGATATGAATAGTTTCACTAATTCCATTCATGGTTA  
CTGTAAACATTCTTAAACTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCCCTT  
TATGGACTATAAGTAACCTAATGCTTTTCTTCCCTATTTTCATATCCCATATTTGGTGCAATA  
ATTTAATTCACCTACTTCAATATTTTGTGTTTGCATTGTATTTTACACCTACATTTACACTATTAAC  
TTATTTGTACATACTTAAATGGTTTCAGTGTGAAAAAGCAGCTTCTGACCTAGCATTACACAT  
AGGCGGTGGCGTTCTCCTGCTGAACATTTAACAATTCTCAAATCTCTAACATCAGATGAGGT  
CACTGTAATCCGGATAAAATGAGATACTGTAATCATGCCTGAGCACAGATAAAAAACAAAGTCA  
CTGTGCAAACCATAAACAGCCAACCTCTTCTGTGGCTAACATGGGTGACTGTTGCTTCTTTC  
CTTTCCTCCCACCCACAACANNNNN

&gt;1079

&gt;1080

&gt;1081

ACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTTATGCTGGATG  
GACGCAGACCTGTAACACCTCTGTTTTTCATCTTCTCCACCATATTTTTCATCAGCCGCCTCA  
TTGTTTTTCTTTCTGGATTTTATATGGCACGCTGATCTTGCCTATGTATCACCTCGAGCCTTT  
CTTTTCATACATCTTCCTCAACCTACAGCTCATGATCTTGCAGGTCTTCACCTGTACTGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTCATGAAGAGCATCCAGGATGTGAGGAG  
TGATGACGAGGATTATGAAGAGGAAGAGGAAGAGGAAGAAGAAGAGGCTACCAAAGGCAAA  
GAGATGGATTGTTTAAAGAACGGCCTCGGGGCTGAGAGGCACCTCATTCCCATATGGCCAG  
CATGGCCATTAGCTGGAAGCCTACAGGACTCCCATGGCACAGCATGCTGCAAGTACTGTTG  
GCAGCCTGGCTTCCAGGCCCCACACCGACCCACATTCTGCCCTTCCCTCTTCTCACCAC  
CGCCTTCCCTCCACCTAAGATGTGTTTACCAAATGTTGTTAACTTGTGTTAAATGTTAAAT  
ATAAGCATGCCATGGATTTTACTGCAGTTAGGACTCAGACTGGTCAAAGATTTCAAAGAN  
NNNNNNNNNNN

&gt;1082

CCACGCGTCCGGGGGGCGCGGGCCCGGGGATCCTCTCGCGCCCGCGGGCTCCAAT  
CGCTGGTCCTCACGCAATCCTAAACGGTTCCCGGGCGAACCAGGGGCCCCGCGCGCGCAAG  
GCCGCCGAGACCCTCAGGGGCGTGCGGGCCTTTGGTCCCCGCGGGACCCTGTGGGGGGC  
CTGGGCGGGCGGGCGCCCCGACCCAGCCAGCGGACGGGCGGGGGGGGAACCGGGAGGT  
CCCGGGGGGGCGTCCACGGGGGTGTCCCCGGGGGTCTCCGGAAGGCGCGGGCGGAGGCT  
CCCGCGCTGCGCTTGAAAATCGCGCGCGGGCCCCGCGGCCAGCCTGGGTAGGGGCAAGGC  
GCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAA  
AGCCAATGGGAAGGGCCGGGAGCGCGCGGGCGCGGGAGATTTAAAGGCTGCTGGAGTGAG  
GGGTCGCCCGTGCACCCTGTCCAGCCGTCTGTCTGGCTGCTCGCTCTGCTTCGCTGC  
GCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCATCACGGACCCGCGAGCAGCTGC  
AGCTCTCGCCGCTGAAGGGGCTCAGCTTGGTCGACAAGGAGAACACGCGCCGCGGCCCTGA  
GCGGGACCCGCGTCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCCACGGAG  
CCGAAACTAAAGCAGCTGCCCGCGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCC  
CGCCGCTTTGTCATCTTCCCATCGAGTACCATGATATCTGGCAGATGTATAAGAAGGCAGA



Table 4

GGCTTCCTTTTGGACCGCCGAGGAGGTGGACCTCTCCAAGGACATTGAGCACTGGGAATCC  
CTGAAACCCGAGGAGAGATATTTTATATCCCATGTTCTGGCTTTCTTTGCAGCAAGCGATGG  
CATAGTAAATGAAAACCTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCT  
GTTTCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGA  
CACTTACATAAAAGATCCCAAAGAAAGGGAATTTCTCTTCAATGCCATTGAAACGATGCCTTG  
TGTCAGAAGAAGGCAGACTGGGCCTTGCGCTGGATTGGGGACAAAGAGGCTACCTATGGT  
GAACGTGTTGTAGCCTTTGCTGCAGTGAAGGCATTTTCTTTCCGGTTCTTTGCGTCGATA  
TTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAACTTATTAGCAG  
AGATGAGGGTTTACACTGTGATTTTGTCTGCCTGATGTTCAAACACCTGGTACACAAACCATC  
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&gt;1083

&gt;1084

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&gt;1085

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**>1086**

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Table 4

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&gt;1087

&gt;1088

NNCACGAGGATTCCCTTCCTTCTTTTGGTCGGTTCTGAGTGTGGGGTGTCTACTGGG  
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&gt;1089

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&gt;1090

&gt;1091

&gt;1092

&gt;1093

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### Table 4

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**>1094**

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**>1095**

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**>1097**

**>1099**

**>1101**

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Table 4

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CAAGTGAAGTGTGCTGATGAAGTCCTCTATAAGCACAATGGGAGGCGGGAGGCGGCCAGC  
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&gt;1102

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&gt;1103

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Table 4

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AACTGAAGAAATAATCAAGGAGGAGGAAGAGGGAAAAGACATTGAAGAAGGCGCTATTGTG  
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Table 4

AACACACTACAATCGCATAGGGACGAAATACAATGAAGCCAAGACTAACCGATCCCCAACAA  
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GAAGATTCAACTTCATCAGGTTTCAAGAATCACTAAAGGATCCTTCTATGGAGGGAAATGT  
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CCACTACTCATGCTGCTTCAGAGACGCTGGAATTTGGTAGTGAATCTGGTGTTCTTTATAAAA  
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GGGCCTGAACCTTCTTATGCCTTGTCTGATAATGAGGGCTCCCAACACATCTTCACTGTTTCT  
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Table 4

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Table 4

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### Table 4

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### Table 4

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Table 4

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Table 4

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Table 4

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### Table 4

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**>1138**

**>1139**

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**>1140**

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Table 4

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Table 4

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&gt;1148

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&gt;1151

&gt;1152

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&gt;1157

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&gt;1159

&gt;1160

&gt;1161

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Table 4

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>1164

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>1167

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>1168

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Table 4

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Table 4

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&gt;1182

&gt;1183

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Table 4

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TTCAAATTCATGAAAAAGATTGCGCCAGAGGCTGAAAACATCAAGACCTCAAAAATATGAATG  
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TTTAGACACGACACCAGCACATTTTCTACTGATACGGTTTTACATAGTTAAGGACTAAATAA  
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Table 4

GGAAAGCCATGTAGTTTTTAAAGTAACATACTGCTGGTAGTAAAAATGCTATGACAGACACGA  
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CTCTAGACCTTGGCATAACCCCTTCTCCTGTGAGAGCACAGCAGGATTGAATGTGCCATGGAT  
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TGTATAATCTTCTTTGTAATAGCTAGTCGTTCCCTGTCAATGCTATCAACAACAAGATTGAT  
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CGGGTCCCCACCGCGCGCGGGCTGCGCGGAGCCGAGGAGAACCCGCCTGAGATCGCG  
CAGCGAGGGGCACTGCTAGGCCGAGAAGCCTCGACCCGACCACTCAGAAGGCGCGCGAC  
GAATCCCCACCGGACAGCCCTTTGTTTCGAGCCCACTGAGCCCAACGCGACCCGTAGTCC  
CCTCGGTCTGTACCCACCTACCCGGACGC

&gt;1186

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CTAACAAGAAAGGAATGTAAGTTTACTCTAGCATATGATAAACAGGCAGTCTGAGATTTTACA  
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NNNN

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NN  
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GCACTTTGGGAGGCTGAGGCGGGCGGATCATGAGGTCAGGAGATCAAGA

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Table 4

ACAGTAGGGTAGTGGCAGTAGTGGAGGAGATGGAATAATGGAGATTGAGGGGCTTGAATTT  
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CGATGGAATGGAAAAAGACTTGAGGCCCTGAGAACTGAACCATGATTAGGAGCCTTGGAAC  
AGTAGCAGTTGTCATCTGTGTAATAAGGTTATTGATTTCTAAAAGGTCTATGTTAATCAGAT  
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GCCAGCTGGTGTTTAAGAGTTGCTTTGTTTTCTGTGAAACCAGGTGTACTGCATTAGAAAAGT  
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ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAATTTTACACTT  
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CAAAAGGGGAAATTTGGGGAGCAAAAAGGGAGAAAAAAGGGACCCTTCTAGTTT  
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gtgtataata

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NNNNNCTGGCCTGTCTCCTTCTTATTGTATTGGCGAGTCTGGGCATTTATGGAACGC  
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TTGGTAAAAATAAAAAAATCTGACAAAGCCAAGTCTTGATGAGATATGGAGTACCAGAAGC  
TAATCCCCACCGGGGTTGGTTTAAATAGGGACTAACTACTTTGGAGGACATGGAAGATACCT



Table 4

CAAGTTTAAATGCTTATAACCCAAGGCTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCT  
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TAACAGTATAGCATACGGCAGAGAAATGAGTGAAGTACAGCTACATGAATAAATCTCAAAAC  
GAATGTTAAGACAAACAAGGCCGGTTCGGGTGGCTCACTCCTGTAATCCCAGTACTTTGGGA  
GGCTGAGGTGGGTGGATCACTTGAGGTGAGGAGTTTGTGACCAGCCTGGCCAATGTGGTGA  
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NNNNCCATTGCTATTATCTAAAATAAAAAACCTAGATTTATGGTCTTTTTTTGAAAAT  
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TGATTACCTTACAATAGGCAAACACTTTCTAGTTTTCTACTTCCCACAGTTTTCCCTAACACCG  
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CAGTTCCATGTACCTTGATCTCTAGCAACGAGGGAAAATAAGAAAGATCAAGATTATTGTGTC  
TAAAGAAAACTGGGAATATATATACTTGACCCGCTTCACTTGCTTACATTGTCTGTCTGATTCT  
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CCAACATGGCAAAACCGCATCTCTACTAAAGGTACAATAACCAGCCTAGCATGGTGTGTC  
GCCGGTGGTCCCAGCTACTCAGGAGACTAAGGCAGAGAATCGTTTGAATCCAGGAGGCAG  
GGGTTGCAGTGAGCAGAGATCGTGCCATTGCACTCCAGCCTGGGCAACAGAGCAAGACTCT  
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ANNNNN

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&gt;1210

&gt;1211

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CACAAGGAGCTGCCAGCTTTGTGGGGCATTCCAGAGAACCATGTGCTGTGAGGGCCTTCC

Table 4

GAGTCCATCTGTTTAATCCTGTCATTGGAGACTTGAGAAACCAGAGCCCAGAAGGGAAAAAGT  
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GGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCCAGGAGTATGCTGTTTTCTG  
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GAACTCTTGACTTCTGCCATGGATCTCTTGGGCCAGGACTGTTGATGCCTTTGAGTTTTG  
TATTCAATAAACTTTTTTGTCTGTTAAAAAATAAAATAAATGGGCGGCCCGG  
GCCCCCTTTAATTTTTTAAAAAACCACCCCCCCCCCCCCCGGGCCGGAATAAAAAA  
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&gt;1215

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ACAATCAATGGACCAATAGTTCCTAAATTAGTAATAAGGCTTACCTTACAAAGTAATGAAATA  
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AATAACTACTGTACATGCTACAACATCTGAATATTAATGGTTTTGCTGCAGATTCTGGGTATG  
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Table 4

TGCAATTAGCGTTGCATTGTCATGCTCCAGCATGTGATATCTGTATGGTGAAGTTATTTCAAT  
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>1217

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>1218

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>1220

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>1223

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TGTAATAATTCATTTATTAGTTCTGGACCAATGTTATTTATAAGCTATTATTTCAAATGATAAAA  
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>1225

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Table 4

&gt;1229

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&gt;1230

&gt;1231

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&gt;1232

&gt;1233

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&gt;1234

&gt;1235

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&gt;1236

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Table 4

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Table 4

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NNNNNNN

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Table 4

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CCGGGGCGCGCGCCGAGGACGCGGCCGAGGGGCGAGCCCGCGCCGCGAGGAGGGGG  
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Table 4

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ACTTTGGGAGGCTGAAGCGTGTGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCA  
ACATGGTAAAACCCCATCTCTACNNNNNNNNNNNNNNNNNN

&gt;1254

&gt;1255

NNCGCAACCCCAATACCCCCCATCGACNNCCATTGTAGGGAACCGCGCCATAGTG  
TACGCCCGCGGGAGAGCCCGGACTTCCACTCGTGCGTGAGGCGAGAGGAGCCGGAGAC  
GAGACCAGAGGCCGAACCTCGGGTTCTGACAAGATGGCCGGGCTGCCCGCAGGATCATCA  
AGGAAACCCAGCGTTTGCTGGCAGAACCAGTTCCTGGCATCAAAGCCGAACCAGATGAGAG  
CAACGCCCGTTATTTTCATGTGGTCATTGCTGGCCCTCAGGATTTCCCTTTGAGGGAGGGA  
CTTTTAACTTGAATATTTCTTCCAGAAGAATACCAATGGCAGCCCTAAAGTACGTTTCA  
TGACCAAAATTTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTTGAAGA  
TAAGTGGTCCCGAGCACTGCAGATCCGCACAGTTCTGCTATCGATCCAGGCCTTGTTAAGTG  
CTCCCAATCCAGATGATCCATTAGCAAATGATGTAGCGGAGCAGTGGAAGACCAACGAAGC  
CCAAGCCATAGAAACAGCTAGAGCATGGACTAGGCTATATGCCATGAATAATATTTAAATTGA  
TACGATCATCAAGTGTGCATCACTTCTCCTGTTCTGCCAAGACTTCTCCTCTTTGTTTGCAT  
TTAATGGACACAGTCTTAGAAACATTACAGAATAAAAAAGCCAGACATCTTCAGTCCTTTGG  
TGATTAATGCAATTAGCAAATCTATGTCTTGTCTGATTCAGTGTCTATAAAGCATGAGCAG  
AGGCTAGAAGTATCATCTGGATTGTTGTGAAACGTTTAAAGCAGTGGCCCTCCCTGCTTT



### Table 4

**>1256**

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**>1258**

**>1259**

**>1260**

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Table 4

ACCGGTGAGTTCTAGGCCTAAGGAAAATTGCTAAGTCAGTGTTACTCTCTAGTGATGTTGAG  
AACTAGAGGGATTTCAGACCTTTTACTTTTGATGAAAGGTTGTGAACTGGTGGCTGTGGGT  
CAAATCCATCTCACAGATTTGTTTGGATCACACAGCN

>1261

>1262

ACACTCCATCAAGCCTGGTTCCTAGGATGCTGGACTTCTAGCTTAGTGAGAATGCAG  
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AGTTCAAACGACTTTTCCTTGAGGGAGTATTTAATCGGACAAGGGAAGTCTTTTTCTTTTGG  
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GTAACAGTCCTAGGAAAATAGATGGGGGCTGGGGGTAAGGAAATGTGCTGAAGACAGAGCT  
ATTCTGGATGGATTTTGGTTTGCAAAAATTCTACTTTAAAACAATTTTGCCTGTAGCAAGTACA  
TTTTTTTGCAATTGGAGTGTAACATTCTGTGTGGCAACAGTTAAAGCTGTTATAACAATTTG  
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>1263

>1264

>1265

NNNNNNNNNNNNNGCCCGTCCCGGTCCGGAATCCCGGGTCGACCCACGCGTCCG  
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TCTGCTAAAGTGGTAGATGATGAAATTTACTACTTCAGAAAACCAATTGTTCCCTCAGAAGGAG  
CCATCACCTTTGCTGGAAAAGAAGATCCAGTTGCTAGAAGCTAAATTTGCCGAGTTAGAAGG  
TGGAGATGATGATATTGAAGAGATGGGAGAAGAAGATAGTGAGGTCATTGAACCTCCTTCTC  
TACCTCAGCTTCAGACCCCCCTGGCCAGTGAGCTGGACCTCATGCCCTACACACCCCCACA  
GTCTACCCCAAAGTCTGCCAAAGGCAGTGCAAAGAAGGAAGGCTCCAAACGGAAAATCAAC  
ATGAGTGGCTACATCCTGTTTCAGCAGTGAGATGAGGGCTGTGATTAAGGCCCAACACCCAG  
ACTACTCTTTTCGGGGAGCTCAGCCGCCTGGTGGGGACAGAATGGAGAAATCTTGAGACAGC  
CAAGAAAGCAGAATATGAAGGCATGATGGGTGGCTATCCGCCAGGCCTTCACCTTTGCAG  
GGCCAGTTGATGGCCTTGTTAGCATGGGCAGCATGCAGCCACTTCACCCTGGGGGGCCT  
CCACCCACCATCTTCCGCCAGGTGTGCCTGGCCTCCCGGGCATCCCACCACCGGGTGTG  
ATGAACCAAGGAGTGGCCCCTATGGTAGGGACTCCAGCACCAGGTGGAAGTCCATATGGAC  
AACAGGTGGGAGTTTTGGGGCCTCCAGGGCAGCAGGCACCACCTCCATATCCCGGCCAC  
ATCCAGCTGGACCCCCTGTCATACAGCAGCCAACAACACCCATGTTTGTAGCTCCCCACCA  
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AGTCCAACAGCATTAGCAAGTGGGATCAGACACTGGCAGCTCGAAGACGCGACGTCCATTT  
GTCGAAAGAACAGGAGAGCCGCCTACCCTCTCACTGGCTGAAAAGCAAAGGGGGCCACAC  
CACCATGGCAGATGCCCTCTGGCGCCTTCGAGATTTGATGCTCCGGGACACCCTCAACATT  
CGCCAAGCATACAACCTAGAAAATGTTTAATCACATCATTACGTTTCTTTATATAGAAGCATA  
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CTGAGGTATGTTAATCTAGGCAGGTACGTTTAAGGATATTTTGATCTATTTATAATGAATTCA  
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TGGAGGCGGCCAAGAAGAACTTAAGCGAGGCCCTGGGGGACAACGTGAAACAATACTGGG  
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GATGATGACGACTTGAAACTTTGTTCCACACAATGATGCTTCCCACTCGAGGCCAGCTTGA  
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TCAGCTGTTGTCTATGCTGTGGAGAATCACCTTAAAGATATACTGACGTGAGTTGTGTCAAGA  
AGGAAAGCTTATCGGTTACGAGATGGTCATTTTAAATATGCCTTTGGCAGTAACGTGACCCC  
GCAGCCATACCTGAAGAATAGTGTAGTAGCTTACAACAACCTTAATAGAAAGCCCTCCAGCTT  
TTACTGCTCCCTGTGCTGGTCAGAATCCAGCTTCTCACCCACCCCTGATGATGCTGAGCAG  
CAGGCTGCACTCCTGCTGGCATGCTCCGGAGACACTCTACCTGCATCTTTGCCTCCGGTGA  
ACATGTACGATCTTTTTGAAGCTTTGCAGGTGCACAGGGAAGTCATCCCTACACATACTGTC  
TATGCTCTTAAACATTGAAAGGATCATCACGAAACTCTGGCATCCAAATCATGAAGAGCTGCA  
GCAAGACAAAGTTACCGCCAGCGCTTGGCAGCCAAGGAGGGGGCTTTTGCTGTGCTAAATT

Table 4

AGGATTTGAGGGTGTGGGACCCTCACCGAATTCATTGATTACTGAAAATTGAATGTTTTTTGG  
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GTGATGAAGTGAATAAATTTACATTCGATAGTGTACTGATAACAAACCTACTTAAGAGATAT  
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GTCTAAATAATGGCTGTATAGATATGTATATATGGTTCACATATCTGGATCTGTGTATTTGATT  
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&gt;1273

&gt;1274

&gt;1275

&gt;1276

NNNNNGCTAGGAGGGGTGTCGTGTGCATGCGCGTTGAAGAGGATCTGTATTGCC  
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CAAAAATGAGTTCATGCCATTTAACATATTGTATTTTAATTATTAAGTATTAATTTACTATGA  
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&gt;1277

&gt;1278

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ATGATTTTCTTTGATACAACAACAAACTTN

&gt;1279

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CAGAGCAATATTCACATGACATCTTTCGGATCTGGAATCTTAATTACCATTAGGTTGAACTC  
TACCTGAACTAAAAATAAGTGGTCTCTATCACGTTGAAATTACTTTAATATTTTCAATTTATGTTT

Table 4

ATACTATTTATTTAAATGCGGAGAACATGGCTAACCATTTCAGGACCATTTAATTATCAAATTAT  
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&gt;1280

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CACTTTAAATACTTCTGGTGTCTTTATGACTTAAACGCAAATAGCTTAGGCTTAGCTTTTCTC  
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CGGAAAATGAGATGTGCGGGGTAGGGGGCAGGGACGAGGCGGAAAAGGACTACTCGGATC  
ATTTTAAAGATGGGAGAGTAGCCACAGAGGAACAGAGTAGGAATCTAAACGAAGTAAAGCAG  
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TGGCAGAAAAGACAGGACTGTGGTGGTCAGCCTGACCTCGGGGTGAGAAGTCGAGGACTC  
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&gt;1282

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AGGAGAAACATAATGAAGAATCTGTGAGTAAAAAGAATATTCAGGCAACCCTTCATC  
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&gt;1285

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AAACTAACCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAAGAATTG  
CTCATATCTTCCCAAATTTGTGTAGTATAAAAAAGAATGCTGTCTGCTGGTTGTTTTTGTAGAATAT  
GGAAGTCCCTGCAGTAAGTAGGCAACATGCTACCCTTCTATTCAACACCAGCACTAGAACAA  
GGCAAGTGGGACCTTTGTGACACATGATTCGATTTCTTAAAGTCATTGGCTCTGGAGAATC  
TGAGACACCTGCATCCACACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTCTCTAG  
GCCATACACCCACGTAGCATCTTTCTCTAATGGT

Table 4

&gt;1286

&gt;1287

CGGTCCGGCTTGAGCCCGGGAGGAGAAGGTTGCGGTGGGCGGAGATCGCCCCAC  
TGCCCTCCAGCCTGGGCGACAGTCTCAAAAAAAAAAAAAAAAAAGCATACATCTCTGAAG  
GTAAAGTATAAATCAGTGGGCTCAAGATTTGCAGGTACAGCCTTGTTAATGCCTTCAATAATG  
CTTACGTTCCCTGTCTTATGGGTTATAATTTTACATCCTCTTCAGATACAATCTGAGAACTTG  
TTGACTACCTTTGTTACATGCAAAAATTTTCTATTTTAAATATTGCATTATATTAATGGTTTCATA  
GTACATTCCAGTTCCTTATCTGAATACAAGCGTTTTGCTTTTATTTCCAGTTTCTTGGACCAGA  
ACAATAAAATACATAAGACATCGTTTCTATATGGTCATATACTATATAGAATAAAGAATTGTTA  
TGTAATTATTAATGAGTATACAGACCTTTACATAAAACTAAGGTACCTCAGTGGAATCTG  
CTACAGTGCTTCCCCCTCCCTACCCCTCCATTTTGTATAACCTTTTAGCTATCTAAATAATA  
CGTGTTCCATACTCAGGATAGCTGGTTAGCTAGCAAAAGAAATTAACATCTGTGAAGCCATATT  
CATTATCTTCCCTGTGACCAAGGCTGTTGACCTTAAATAAACATTAAGTTGATTTTGCACAACA  
CTGTATTTGTGTGTGTGCATGTGCCTGTTTTGTGTGTGTATGTTTGTGGGAAATAATTATGT  
TTGTTTCCGCATATATTCATTTTAAATGCATTCTGTAACCTTTCTCGAGTGGTGGTCATTGAGG  
GTAGGGAAGATTTATTTTTTAAGTTGTCGTTAAGGTATTTTATTAGTGTTCTGAGTGTAATA  
CAGTTTTTCCCAAATACTTATGGCAGATAAGAGCATTTTTGTAAATAATAAACTAGCACCGTT  
TGGGTAAATTTGCATTATTTTTGGACAGGTTTATTGTATGTAAAACAAATATCTCAAAATTC  
ATTTTACATTTAGCAAAGGTGCAACATTTGTTTTGGAGTTTGAGAGATATTTTCTTGTCTTC  
CATCATTCAATAAAATACTAAAATTGATAACCGCCAAAATAAAAAATAAAAAATAAAATAAGNN  
NNNNNNNNNN

&gt;1288

NNCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGCACTATAGCGCCCGCCA  
CCACGCCAGCTAATTTTTTGTATTTTAGTAGAGATGGGGTTTACCGTGGTCTCAATCTCC  
TGACCTAGTCATCCACCCGCCTCCGCCTCCCAAAGTGCTGGGATTAGAAGCGTGAGCCACT  
ACGCCCCGGCCAGGTGAGACTATCTTTAACCTGCTAATGAATTATAATTAGCATATAATGAGC  
AGTGAAGATGACCAGGGGTCACTTTCTTGCCATCTTGGTTTTGGTAGGTTTAGCCGCTTC  
TTTACCTCATGCTGTTTTATCAACAAGGTATGTGTGATCTGTACCTTGTGCAGACCGCCTACC  
TCATCCTGTGACTTAGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTAT  
TTTACCCAGCCCTTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAAT  
GGTCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTCAGTGACAGCAAGACTGTTGAAG  
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TGTTGTGTTACAATGAAGTATATCATCACTGN

&gt;1289

&gt;1290

NCCTTAAGCGTTGAAACCCGGTACTCAGTTGATACTCGAAGACGGGCCCCCAAAG  
GGCTCTGTATTCCACAGCCATGAATTCATCCGGGAGAAGGCTCGACGGGGTGGTACCATG  
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TTATATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTTAAGAAGTTGGAGCACTCTTG  
GAAAGCCCTGGTACATGACGGAGACACTGTCTCAGTGCATCGCCAGGCTTCTACGCTGAA  
CGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGATTCCCTGTAAGTGGTTTCTACC  
AATTGACTGCCTACTCCTGCCAGTGGCTCCCTTACCCCAAGAGAACAGAGGGCAGGACAC  
CTCTGGTAGGGAGCTGCCAATGCCAGAGGCCTCTCCTTCCACCTACATCCCATGAGAGCCA  
TTTCTTGTCTTTGTGTTAGTCTGTCTAGTCATTTCCAAGTTGCTGTTTCCCCCTTGGCTCTT  
CCTGCATATGTCAATGAGGTGAGGACCATTTCTGGGGAATTGGGATTTGCAAAAAATAATA  
AATAAATAATGTGTAGTTGTGGATGTAGGATCCATGCCGCAGAGATAGGCAGAGCCTATGT

&gt;1291

NCCTTAAGCGTTGAAACCCGGTACTCAGTTGATACTCGAAGACGGGCCCCCAAAG  
GGCTCTGTATTCCACAGCCATGAATTCATCCGGGAGAAGGCTCGACGGGGTGGTACCATG  
GAGACTGATGACCATATGGGTTGCATCCCTGCCCGTAATTGTAAAGGGGAAAGGCTTCTGCT  
TTATATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTTAAGAAGTTGGAGCACTCTTG  
GAAAGCCCTGGTACATGACGGAGACACTGTCTCAGTGCATCGCCAGGCTTCTACGCTGAA  
CGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGATTCCCTGTAAGTGGTTTCTACC  
AATTGACTGCCTACTCCTGCCAGTGGCTCCCTTACCCCAAGAGAACAGAGGGCAGGACAC  
CTCTGGTAGGGAGCTGCCAATGCCAGAGGCCTCTCCTTCCACCTACATCCCATGAGAGCCA  
TTTCTTGTCTTTGTGTTAGTCTGTCTAGTCATTTCCAAGTTGCTGTTTCCCCCTTGGCTCTT



Table 4

CCTGCATATGTCAATGAGGTGAGGACCATTCTGGGGAATTGGGATTTGCAAAAAATAAATA  
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>1292

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CTCGTCGACATGAGTGATGTGGAGGAAAACAACCTTCGAGGGCAGAGAGTCTCGCTCTCAGT  
CAAAATCTCCAACGGGAACTCCTGCTCGTGTAATCGGAGAGCAGGTTCAGGATCTCGTAG  
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GGTCAAGGAGACATTCTCATAGACGTTACACTCGATCCAGATCCCACTCTCACTCTCATAGG  
AGACGATCTCGAAGTAGATCATATACACCAGAATACCGGCGGCGAAGGAGCCGAAGCCATT  
CTCCAATGTCTAACCGGAGAAGACATACTGGCAGCAGGGCAAATCCAGATCCCAACACTTG  
CCTTGGAGTGTTTGGCCTCAGTTTGTACACAACAGAGAGGGATCTTCGTGAAGTATTTTCTC  
GATATGGACCATTGAGTGGTGTCAATGTGGTTTATGATCAGCGAACTGGGCGATCTCGAGG  
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ACCAACACCAGGCATCTACATGGGCAGACCAACTCATAGTGGTGGGGGTGGTGGAGGAGG  
CGGCGGCGGTGGAGGTGGAGGTGGTGGCAGACGTCGAGATTCTTACTATGATAGAGGATA  
TGATCGTGGGTATGACAGATATGAAGACTATGATTACCGATACAGAAGACGATCACCTTCTC  
CTTATTATAGTCGATATAGATCACGATCAAGATCTCGTTCCTACAGCCCAAGACGCTATTGAT  
AACGGAATGGTTGCAATTAAGGACATTTTTTCTCTTTTTTTTTTTTTTTTTTAAATTCTGA  
GATTTCCCAAGCTGTGGATTCTTCTACTCCTTAAGAAAAAACTTTGGTTTATTAGCATCT  
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Table 4

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Table 4

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&gt;1304

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Table 4

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Table 4

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Table 4

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TCATTTAGCCTGAAGAAGCCAGAGACAGGAGAATGTGTGTCACTTAAAGAAAAATAGGGAT  
TAGCAACAATGTTTGGTTGAAAAGCCAGAAATAATAAAAGATAGTAAATTTTGATTACCAAA  
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ANNNN

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Table 4

GCCAAATATGACCAAATTACTTTTTATTATATTTTTGATTTATATTTTCAGCTAGATCTAAAAAG  
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Table 4

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NNGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTCTGCGGTGCGGGGAC

Table 4

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Table 4

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CCCTTAGACTANNNNNNNNNNNNNNNNNNN

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NNCATGGTCTTTTTATTTTCAAAGAGAAAATTGACTTTGTAAAAGAGCAAACCTCTTA  
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GGCAGATAGATCCTCACCATCATCTGAACACTCGAAGTGGACTTCTTTTCTGAATTGACCA  
GTCAAAGAGAAAGGAAAAGAAAAAATATGACCGGTTGAATTTAGAGTATCAAAGCATGG  
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TGATCCTGTTTTTCTACAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGTATGAA  
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NNNNNNNNGGAAGTAAACCAGTATTTATTGAGTACCTATTTGCCAGATACGGCTAG

Table 4

GTGCTCCACATCCCATCTCTTAATCCTCACAACAACCCTGTGAGGTAGGTAATAATGATCC  
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ACCAGCAGGATGCAGGAAAAAGTAACTGACCGGATGGTTGCCTCAATCTGTTGATTCTTCAG  
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GAGAAGNN

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TGAN

&gt;1338

&gt;1339

NNCACCCACGCGTCCGCCGAGCCCTGAGCGCCGGCGCGGGACCGAGCTGGCGGC  
GGGCGGCGCGCGCCTTCCGAGGCTTCTGCTGCTTCTGCCCCGAGCCCGCGGCCCTCACGC  
GCGCCCTCTCCCGTGCCATGGCCTGCAGGCAGGAGCCGCAGCCGCAGGGCCCCGCCGCC  
GCTGCTGGCGCCGTGGCCTCCTATGACTACCTGGTGATCGGGGGCGGCTCGGGCGGGCT  
GGCCAGCGCGCGCAGGGCGGCCGAGCTGGGTGCCAGGGCCGCCGTGGTGGAGAGCCAC  
AAGCTGGGTGGCACTTGCGTGAATGTTGGATGTGTACCCAAAAAGGTAATGTGGAACACAG  
CTGTCCACTCTGAATTCATGCATGATCATGCTGATTATGGCTTCCAAGTTGTGAGGGTAAAT  
TCAATTGGCGTGTTATTAAGGAAAAGCGGGATGCCTATGTGAGCCGCCTGAATGCCATCTAT  
CAAAACAATCTCACCAAGTCCCATATAGAAATCATCCGTGGCCATGCAGCCTTCACGAGTGA  
TCCCAAGCCCACAATAGAGGTGAGTGGGAAAAAGTACACCGCCCCACACATCCTGATCGCC  
ACAGGTGGTATGCCCTCCACCCCTCATGAGAGCCAGATCCCCGGTGCCAGCTTAGGAATAA  
CCAGCGATGGATTTTTTCAGCTGGAAGAATTGCCCGGCCGCAGCGTCATTGTTGGTGCAGG  
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TGTGCTAACAAGGAAGAAAAGGTGGTTGGGATCCATATGCAGGGACTTGGGTGTGATGAAA  
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CGTGTGGCGGGCAGTGGGACCCATAGATCTTCTGAAATGAAACAAATAATCACATTGACTTA

### Table 4

CTGTTTGAGTTTTATGTAATTCCTTTATTTTAATCAGGATCTTCTGATAGTGGAATTTTTAGTAC  
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GCTGGAGTGCGGGGGTGCTATTTCAGGCTCTACCAAACCTGGGCTCCGGGGGGTCAAGGGG  
AATCTCCTGACATTTAGCCTCCCGAATTAGTGGAATTAACGGGCAGGCACACCAAGTCCGGA  
ATATTTGGATTTTGAACATGGGGCGTCCCCAAGTTGGCCGGTGGTCTAATCCACTTGGAG  
GATTCGCCCCAGGCCTCTAGTGTGAATTCAGGGACAGGGACAGGTATTCACCACGGGGGAT  
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**>1340**

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 CTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGTTTTGAATTTATTGTGTAAATTG  
 CTCAAAATAGTCAATTTAAACAAATTTCTGTTTTACTATTTCCCCCTTGTCAATTAATTTTTG  
 TATTTGTGCTTCTCCTTTTTTTCTTAAATAGGTTAGCTGGTAGTTTATCTGACTCAACTCCCC  
 GCACTACCCATCACCAACTTGGATTTATTATTGCCGGACGCGTGGCGGACGCGNN

**>1341**

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TTACAGCATAGGGTCTCTTGTAGTCCTCTTAGTAAAACTATTGTGACACTTCCTTCTTTCTCC  
AAATATTCGGCCTGGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCCTACGGAAACAACAACCTTTCTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTAT  
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**>1342**

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CCGCTAGCCCGAAAGGTTGCGCGCGCAGACCGAGAAGTCTCGCGATAGCCAGCCGCGGCT  
GCCCTTGCGCTTCCGCGAGCTGGCGGGGTCCGTGGTGCGGGATCGAGATTGCGGGCTATG  
GCGCCGAAGGTTTTTCGTCACTACTGGGATATCCCCGATGGCACCGATTGCCACCGCAAAG  
CCTACAGCACCAACAGTATTGCCAGCGTCGCTGGCCTGACCGCCGCTGCCTACAGAGTCAC  
ACTCAATCCTCCGGGCACCTTCCTTGAAGGAGTGGCTAAGGTTGGACAATACAGTTCACTG  
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CACGCACGCACAACCTACGGGATTGGCGCCGCCGCTGCGTGTACTTTGGCATAGCGGCCT  
CCCTGGTCAAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGCAAACCCAAGGTGTGAG  
CCCTGTGCCTGCCGGGACCTCCAGCCTGCAGAATGCGTCCAGAAATAAATTCTGTGTCTGT  
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ccccccgca

**>1343**

**>1344**

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CCGACCGCGTCTCGGTCTCCGCGTCTGCCAGCCTGGCTGGCAGTCCGTCTGTCCATCCCG  
CCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAG  
TGAGTGTCTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAG

Table 4

TTTCCACATCTGCACAATGGGGGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGT  
GAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCCATAGGGCGCTTTCACAGGCCTGGCC  
TTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCATCCCCTGCTTGT  
TCTTCGTGGAGTCGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCAC  
GGACACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCT  
ACCCAGGGCCTGAGGCTGCCAGCCGAGTGCCTCCTGCTCTTGTCTACGCACTGGTCACTGC  
CGGGCCACCCCTCACGATCCTGCTGGGAGAGCTGGCGCGTGCCTTTTTCCCTGCACCACCT  
TCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGCCTGCTGCCGCTTCAGC  
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CCATCTTCGCCAACGCGGGGAGGTGGTGACCGGCAATCCCACGCCACACTTCTGTCCGT  
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CCTGGCCGCGCCCGTGCCTGCGCTGGCGGTCCAGCTCGTTGGCGGCGGCGGGGCTC  
CCTGAAGGTGGGGCCCTTGTAGCGGCCCTAACCGATGTACGTGACTCTCGTGTTCGCGG  
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CCTGACAGGGGCGGCCATCGCCACCTTTTTGGTACCTGCGTTGTGCATAACTTTCAGAGC  
CGGCCACCCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCCACCATG  
GATAGCCCCCTCGAAAAGTTAAGTGTGGCGCAGGAACCCGAGGTCTGCAGGCCGCAATTCGA  
CACCGGCACGGCTCACCCCATCCAAGTCGCAGAACTGCGCCCGCCGTGGCCACCTGATCC  
CCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTCTGTCGCCCCGTGTGCCCGTCTCTCG  
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CCAGGGCCCTCGCCTTCTCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTG  
GCCGAAGCTGCTGCTGCCACGCCCCCTGCTGCGGGACCTGTACACCCTGAGTGGACTCT  
ATCCCTCCCCCTTCCACCGATTCCGGCACCAGCCCTTACCTGTTTGCCAGCCGTGACCACCT  
GCTGTGAGGCCCCGACCACCCACCCAGAATCTGCCAGTCCCCACTTCTTCCCTGCCACGCG  
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GGAGAGGAGGGAGATGAGGTCAATGTTTGTGATTGAGTCTTCTCTCAGAATCAGCGAGCCC  
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TCAGCCCTCCCTGTGTGCGGCCTCTCCACCTCTCACCACTCTCTCCTAATCCCTACTTA  
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CATCATGGGGGGCATGGGTGGAGCAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAG  
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NNNNN

&gt;1345

&gt;1346

ACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAGATAGTTCCAAAAC  
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CATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACTTCAACATTGACAGGCTCAACAGA  
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AGN

&gt;1347

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Table 4

ATTATTTAATCTTAAAAGGTTTGGTAGAAATCCCCTTAAACAATCTGGGCTTGATGCTTCTTTT  
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CTCAAAATAGTCAATTTAAACAAATTTCTGTCTTACTATTTCCCCCTTGTCATTTAAATTTTG  
TATTTGTGCTTCTCTTTTTTTCTTAAATAGGTTAGCTGGTAGTTTATCTGACTCAACTCCCC  
GCACTACCCATCACCAACTTGGATTTATTATTGCCGGACGCGTGGCGGACGCGNN

&gt;1348

&gt;1349

&gt;1350

&gt;1351

ACAAGTATTATGTATCCATAAAAAATTAATAATCTTTAAAAATGCATATGGGGGTGAG  
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CCCTTTGCTCTGAATTTCCATGGGACTTTATATCACTCACATGACACTTACAACATACTGCCT  
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&gt;1352

NNAGTCGACCCACGCGTCCGCGGACCGCGGGGCGCGGGGCGCGCGCGGTGACAG  
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CAGCTTCAGCTCGGACTCGGGCTCCAGCCCGGCGTCCGAGCGCGGCGTTCCGGGCCAGG  
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Table 4

GCTAATCTGACCAAATGTTGGGAAAAATGTCTCACCTAACCCACTATTCCTTAATTATGGATT  
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GAAAATTTAACTTTTTCTCTCTATTTAAAAGCTAAGAAATGTTTTAAAGGAAAAATGAAATTAT  
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GTATAACTGN

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&gt;1355

NNNACCCGTTGAGCACCAAGCAAGATGGCAGCTTCCGAGACGGTTAGGCTACGGC  
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TTCTGGGGCCTTCTAGGCCTCTACCTGGAGGGGGGCTCTTGCCCCCGCCGAGAGCGC  
GCGCCTTGTGAGAGACAACGACTGCCTCAGAGTTAAATTAGAAGAGAGAGGAGTTGCTGAG  
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GACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTTGTGAGGTTTAAATTCAGTTAACAAAT  
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Table 4

ATCTTGTCTCAATAAGTTTTAAGTAACATTTAAAAATATTAAGCATGTTATTTGACCTAATTTT  
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TTGAACAGAACTTCCTTTTCTGTTATTATTCACTACGAAGCTAAAATGGCCAAATATATACCG  
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&gt;1357

&gt;1358

&gt;1359

&gt;1360

NNAGCTGCCGATACTACTACTAAATTCGCGCCCGGCTGCACCAAGGATTGGCCCAT  
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GAACTAATGGGAGAGGTGCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGC  
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&gt;1361

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AGCACAACAAAATAGAGATTATCCTTAGAATTATTAATGCTTTGTTAAAGATCAGGTAGGATTA  
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Table 4

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NNNNNNNNNAAATTTCTTATTCTGATAGCAATAATAAGAAGTAGGAAATTTACATAG

Table 4

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&gt;1367

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GNN

&gt;1368

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Table 4

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GTCCN.

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&gt;1371

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CCTCCTGGCAGCTACAGCGCAGAAAGN

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Table 4

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Table 4

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TTGTTTGTATTAAGCACTTTTAAATTTATCCTTCTAAAAATAGTTTATTGTATCTGACAAGAAA  
CTTACTTAACCATTTGTGTCCTTCCCATCTTTTTGTTCATCTTTGTTTTCTTCAAATGCCCTCCT  
CCCATCTGCCCTTGAGATTCCCTTGCTTCACTTAAAAGCCAGAGTGCAAGTCATGATTTGCG  
GGAGGGCTCTTGAACCACTTCTGGCTGCACCACAATTCTGTACTTGAGTATCACAGTCATTG  
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GACATTCTAATAATCAGTTTGTGAAATAGCTTCTGTTGGAAACCTTTGAGGGGAATAAGGAA  
TGGTCATCTAAAATGAGAGATTCTGGATTTTAAATGCAGTTCAAAGTTGAGCTGTATTTTTGTT  
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&gt;1378

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CATCCATGCCTCAGAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAGAGC  
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Table 4

CTGCCGCGCAGTGTGGAGGCCACTGTTTGGAAATAAATCTTCCTAACACTACGACTTTTCAT  
GTTTTGGAGTGGACTTTTTAAAAAGTTTTCCAACCACAATGGAAACAGGTTGAACCACACTGC  
GCCTACACATCCATCCATACGTCAGCCATTATAATCAGATTCTCACTGGGGGAGGCATTTTC  
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TCACTTGAATTCATACAGTAGGCCACCATTTTATAACAGGTCTTAGTGTAATTTCTTCCAGAC  
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TCAAAGGTGACTTTAATTCAGAGAATGTGTTTTCTTTCTGTTTTAAAAATATTTGAATTAAGT  
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TTTTACTGTCCAGCAACTTTATTAGTTGTGCTAGCTGAGAATTGGACCATAGAGGCCTTTGAC  
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NN  
NNNNNN

&gt;1379

&gt;1380

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&gt;1381

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CAGCTTGCAAGTAGAAGTCTCAGGCAACAGATTAAACCAGCAGTGACTATAAGCTACACCT  
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TGGTTCACAACTGGAACAAGCATTGGAAGAGATGAAGACAAACCACTGTAGGAGAGTTGTT  
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ATACAGCAATTACTTTTCAAATTAATTTTTTAAATTAATTCATGATGATAAATACATAGTATTCCT  
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Table 4

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TCTGTCATTTACATTTACAAATAATGGATGCAGAGAAATATAATCAATTCTTGATTGTCCTGGA  
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GAGTGCAGAGATACTGAGGTGAGCTTAGGGAGAAGAATTGTATGGAAGGGTGGAAATGAGG  
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GCATCTGGGCCACCCTTTTCTGTAGGTATATATTCTGCCGTTGTGAAACAACATATTATTA  
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GAATCTGACATGGTTTGAAAAATCATGAAGGGTATATATAAAGGATGCATGTGTAGGAGCCA  
TAAAATTCATAACAGTATGTGCCCTTCAGCGTTTTAATCTTATGAAGTGGTTAAGAGATAA  
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AATTTTTAGTAGGAAACAAGGACAAATTTGCATATGAAATGAAAATAGTTATTACATGACAAAA  
TATGTAGATCTGATTTCTAGAACTGAATTAGTCCAAACAAGTAAGAGTGGGAAAAGCAGTA  
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TCCATTACTCTTTTGTGATATTCTCAAAGAAAGTTTAGGATTTTACAGTGTCTGAAATACTG  
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ATTTATTTCTAGGCTATTGAACCTTCTAAATTTAATCCCAAGTAGGTTTAAAGCCGGATATC  
TAGGACCAAAGGTTTAAAGACTCTTTTTCTGGGGCATGCTATTATTTAACAGTTTTTCTCTAAA



Table 4

TTGGGTTTTGGTTTTGGGAAACATGAAATAATTGGTTCTTAAAGCAATCCTTAAGGTCTATTA  
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CGGTGAAAAAAAAAAAAAAAAAACGAGN

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GCCCCGCCCCGGGAGCCAGATTTTGTGGAAGTATAATACTTTGTCATTATGAGATGTCGTCTC  
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GAAGTTTTGGGAGTGTTTATCGAGCCAAATGGATATCACAGGACAAGGAGGTGGCTGTAAA  
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ACTTTGATGGCCAGGATTCTACGCTGCTGCTGTGAGACGGCCCCAGGTGCCCATTAAGTA  
TCAACAGATTACACCTGTGAACCAAGTCCAGAAGCTCGTCTCCTACTCAGTATGGACTGACCA  
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CTAAGCAGGTTAAAAAAGAAAAAAGAAATGTAATGGTTTTTGATAATATGATCCCTTC  
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AGTTTTTTGGTTGAGGTTTTTTGTTGCTTCTTTTTCTTTCTTTCCCCCTCTTTTTTTTG

Table 4

GATGTCCCTTAAATTTTGTGCCCAAGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCC  
CTGCTGGTTAGTATTTAGTATTTATTTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTG  
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AAAACAGACACAGAGCAAGACAATAACATCACAAGCTAAAAGCCAGAGAAATTTAAATTTACC  
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TGGTGGGATCCAACCTGTGAAATGCTTCATGTTTTACAAACCAAAAAGTCAGGTAGCAACAAA  
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Table 4

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GGCCCGGGTTCCTGGGCACGCGGGGCCAGGGTTCACCACCCAGGGCCCGGCCCCCAAC  
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GTCGN

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>1401

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CTGGGCACAGTAGTTACACAATAAACGCTAAAAGCCTGATTTAACAACGTATATAAACAAC  
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Table 4

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GTTTGAATTATTTAATTTGATCCATTTATTTAATTAATAAAAAAAGGAAGGGGAAAGAG  
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GGTCGACN

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Table 4

GAAGGGTCTTTACATTTCTTGTTTATCAGCATTTCTTGATAAATATGAGCTGCAAATACCATC  
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Table 4

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N

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Table 4

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GTCCCTCTAGCAGCTAATCCCATGTTACCAGTTGACGACTCTTCTAGGAACTTCACCTGTT  
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